

6,377,397 meters, or 20,923,597 feet; radius, geocentric, minor, 6,356,079 meters, or 20,853,654 feet; radius, geocentric, at 45° latitude, 6,366,787; radius of a sphere of equivalent surface, 6,370,191. The latter is the radius most generally appropriate for computing or charting meteorological data. The length of the quadrant from the pole to the equator of Bessel's spheroid is 10,000,856 meters. The probable uncertainty still attaching to the above values of the major and minor radii is about 500 meters, or $\frac{1}{13,000}$ part of the whole.

The radii adopted in the geodetic section of the International Meteorological Tables are those of Bessel's spheroid, as above, but the approximate value, 6,370,000 meters, is adopted on page A 13 for the computation of gravity, and the value, 6,371,104, on page A 37, in the computation of the barometric constant, and the same value is again introduced, on pages A 40, A 41, A 45, in the computation of the gravity term of the barometric formula; these slight variations are often unimportant, but the larger value, $1.0026215 \times 6,370,191 = 6,386,891$, is preferable, as shown by the preceding computation.

NECROLOGY.

The following, by Mariano Bárcena, Director of the Central Meteorological Observatory, is quoted from the *Boletin Mensual* for November, 1896:

On the 28th of last October Don Miguel Perez, Engineer and Sub-director of the Central Meteorological Observatory, died in the city of Coyoacan, the victim of a painful malady caused by his devotion to study and his assiduity in the performance of his duties.

Señor Perez was born in the city of Mexico on the 28th of September, 1847. His studies of civil engineering and architecture were made in the Academy of San Carlos and in the School of Engineering of Mexico. He was always distinguished for his brilliant progress, and obtained various prizes in his studies. He was one of the founders of the Central Meteorological Observatory, in the year 1877, and occupied the position of second observer, and a short time after that of subdirector of this institution, the duties of which he always discharged with the greatest ability. In addition to these he made numerous and very important physical and meteorological studies. He was professor in the Academy of Fine Arts in Mexico, and also in the engineering and military schools, where he occupied the chairs of Calculus of Probabilities and Cosmography. In the National Preparatory School he served for a long time as master of the preparatory classes of physics. He was a member of the Mexican societies of natural history, mining, geography, and statistics; the scientific society, Antonio Alzate; honorary member of medical fraternity of Guadalajara and of that of the engineers of Jalisco; Fellow by Merit of the Iberian-American Union of Madrid; corresponding member of the Scientific Association of Brussels and of the Royal Academy of Exact Sciences, Physical and Natural of Madrid; regular member and pro-secretary of the Academy of Mexico and correspondent of the Royal Spanish Academy.

Besides the observations and compilations made by Señor Perez during his long employment at the Observatory, he wrote numerous memoirs and assisted in many special works such as: Annals of national and international comparative meteorology; Annual Meteorological Charts; Barometric Tables; Bulletin of the Central Meteorological Observatory; Mexican Carpology and many other publications. He was one of the editors of several scientific periodicals, such as: The Industrial Promoter; The Mexican Miner; The Bulletin of the

Ministry of the Interior and was one of the group of founders and editors of the Scientific Mexican Review.

Mexican science has lost in Señor Perez one of its most distinguished and intelligent votaries and the personnel of the Central Meteorological Observatory mourns the early death of one of its most industrious and intelligent colleagues and an excellent friend.

The death of Señor Perez has also called forth from Señor Ángel Anguiano, the Director of the National Astronomical Observatory at Tacubaya, an eloquent tribute, signed by his first assistant, Señor Felipe Valle, which we reproduce from the *Anuario*, in memory of this distinguished Mexican meteorologist and engineer:

On October 28, 1896, the Central Meteorological Observatory of Mexico sustained a great loss by the death of its Subdirector, Don Miguel Perez, Engineer, who ever since the establishment of this institution has devoted his brilliant intellect and his indomitable perseverance to the development and advancement of meteorology in Mexico.

The works that he has produced are his best eulogy, and they bear testimony to his intelligent labor during the four lustrums consecrated by him to the study of meteorology. All that we might say in his praise would be feeble in consideration of his eminent merits.

He was distinguished not only as meteorologist but as a professor in the military and engineering schools, where he was a model in his conscientious fulfillment of the duties imposed upon him by his superiors.

As sincere friends of the lamented engineer, whose painful loss we greatly deplore, intimately acquainted with his scientific acquirements and his private virtues, with his noble enthusiasm for all that could benefit the country, and recognizing his skill as an assistant in many undertakings accomplished by this observatory, we, of the Astronomical Observatory, with our whole hearts join in the grief of the Meteorological Observatory and announce to the readers of our *Annuaire* the irreparable loss which science in Mexico has sustained by his death.

Messrs. Rafael J. Sanchez and Ricardo Adan Funes, assistants at the Meteorological and Astronomical Observatory of San Salvador, under date of October 31, 1896, announce:

On the 25th of this present month there died in this city, the worthy director of the Observatory and distinguished mathematician, Doctor Alberto Sanchez.

Society in general deeply mourns this irreparable loss, but it is felt more particularly by this Institution which owes to the indefatigable Dr. Sanchez the state of progress which it has attained under his administration.

The following is quoted from an announcement of November 10 by Julian Aparicio, Director of the Meteorological and Astronomical Observatory of San Salvador:

I have the honor to inform you that on the 3d of the current month I was appointed director of the National Observatory in consequence of the irreparable loss we have sustained in the death of the illustrious mathematician, Doctor Don Alberto Sanchez.

METEOROLOGICAL TABLES.

By A. J. HENRY, Chief of Division of Records and Meteorological Data.

Table I gives, for about 130 Weather Bureau stations making two observations daily and for about 20 others making only the 8 p. m. observation, the data ordinarily needed for climatological studies, viz., the monthly mean pressure, the monthly means and extremes of temperature, the average conditions as to moisture, cloudiness, movement of the wind, and the departures from normals in the case of pressure, temperature, and precipitation.

Table II gives, for about 2,400 stations occupied by voluntary observers, the extreme maximum and minimum temperatures, the mean temperature deduced from the average of

all the daily maxima and minima, or other readings, as indicated by the numeral following the name of the station; the total monthly precipitation, and the total depth in inches of any snow that may have fallen. When the spaces in the snow column are left blank it indicates that no snow has fallen, but when it is possible that there may have been snow of which no record has been made, that fact is indicated by leaders, thus (....).

Table III gives, for about 30 Canadian stations, the mean pressure, mean temperature, total precipitation, prevailing wind, and the respective departures from normal values.

Reports from Newfoundland and Bermuda are included in this table for convenience of tabulation.

Table IV gives detailed observations at Honolulu, Republic of Hawaii, by Curtis J. Lyons, meteorologist to the Government Survey.

Table V gives, for 26 stations, the mean hourly temperatures deduced from thermographs of the pattern described and figured in the Report of the Chief of the Weather Bureau, 1891-'92, p. 29.

Table VI gives, for 26 stations, the mean hourly pressures as automatically registered by Richard barographs, except for Washington, D. C., where Foreman's barograph is in use. Both instruments are described in the Report of the Chief of the Weather Bureau, 1891-'92, pp. 26 and 30.

Table VII gives, for about 130 stations, the arithmetical means of the hourly movements of the wind ending with the respective hours, as registered automatically by the Robinson anemometer, in conjunction with an electrical recording mechanism, described and illustrated in the Report of the Chief of the Weather Bureau, 1891-'92, p. 19.

Table VIII gives the danger points, the highest, lowest, and mean stages of water in the rivers at cities and towns on the principal rivers; also the distance of the station from the river mouth along the river channel.

Table IX gives, for all stations that make observations at 8 a. m. and 8 p. m., the four component directions and the resultant directions based on these two observations only and without considering the velocity of the wind. The total movement for the whole month, as read from the dial of the Robinson anemometer, is given for each station in Table I. By adding the four components for the stations comprised in any geographical division one may obtain the average resultant direction for that division.

Table X gives the total number of stations in each State from which meteorological reports of any kind have been received, and the number of such stations reporting thunderstorms (T) and auroras (A) on each day of the current month.

Table XI gives, for 38 stations, the percentages of hourly sunshine as derived from the automatic records made by two essentially different types of instruments, designated, respectively, the thermometric recorder and the photographic recorder. The kind of instrument used at each station is indicated in the table by the letter T or P in the column following the name of the station.

Table XII gives a record of the heaviest rainfalls for periods of five and ten minutes and one hour, as reported by

regular stations of the Weather Bureau furnished with self-registering rain gauges.

Table XIII gives the record of excessive precipitation at all stations from which reports are received.

Additional information concerning the tables will be found in the REVIEW for January, 1895.

NOTES EXPLANATORY OF THE CHARTS.

Chart I.—Tracks of centers of low pressure. The roman letters show number and order of centers of low areas. The figures within the circles show the days of the month; the letters *a* and *p* indicate, respectively, the 8 a. m. and 8 p. m., seventy-fifth meridian time, observations. The queries (?) on the tracks show that the centers could not be satisfactorily located. Within each circle is given the lowest barometric reading reported near the center. A blank indicates that no reports were available. A wavy line indicates the axis of a trough or long oval area of low pressure.

Chart II.—Tracks of centers of high pressure. The roman letters show number and order of centers of high areas. The figures within the circles show the days of the month; the letters *a* and *p* indicate, respectively, the 8 a. m. and 8 p. m., seventy-fifth meridian time, observations. The queries (?) on the tracks show that the centers could not be satisfactorily located. Within each circle is given the highest barometric reading reported near the center. A blank indicates that no reports were available. A wavy line indicates the axis of a ridge of high pressure.

Chart III.—Total precipitation. The scale of shades showing the depth of rainfall is given on the chart itself. For isolated stations the rainfall is given in inches and tenths, when appreciable; otherwise, a "trace" is indicated by a capital T, and no rain at all, by 0.0.

Chart IV.—Sea-level isobars, surface isotherms, and resultant winds. The wind directions on this Chart are the computed resultants of observations at 8 a. m. and 8 p. m., daily; the resultant duration is shown by figures attached to each arrow. The temperatures are the means of daily maxima and minima and are not reduced to sea level. The pressures are the means of 8 a. m. and 8 p. m. observations, daily, and correspond to Professor Hazen's system of reduction; the barometer is not reduced to standard gravity, but the necessary reduction for 30 inches of the mercurial barometer is shown by the marginal figures for each degree of latitude.

Chart V.—Total snowfall, with the isotherms of minimum 32° F., and minimum 40° F.

Chart VI.—Depth of snow on ground at the close of the month.

TABLE I.—Climatological data for Weather Bureau Stations, December, 1896.

Stations.	Elevation above sea-level, feet.	Length of record, years.	Pressure in inches.		Temperature of the air, in degrees Fahrenheit.				Humidity and precipitation.				Wind.		Monthly temperature data since opening station.						
			Mean pressure, & a.m. and p.m. + 2.	Mean reduced.	Departure from normal.	Mean max. and min., + 2.	Departure from normal.	Maximum.	Date.	Mean maximum.	Minimum.	Date.	Mean minimum.	Greatest daily range.	Mean temperature of the dew-point.	Mean relative humidity, per cent.	Total movement, miles.	Maximum velocity.	Year.	Absolute minimum.	
															Miles per hour.	Direction.	Clear days.	Cloudy days.	Average cloudiness, tenths.	Absolute maximum.	
New England.																					
Eastport	76	24	29.99	30.08	+ .11	29.4	- 4.9	48	13	30	- 2	22	15	33	17	75	2.18	- 1.4	6	10,333	w.
Portland, Me.	103	25	29.98	30.09	+ .07	25.3	- 2.4	47	6	33	- 2	25	18	27	16	70	2.18	- 1.3	5	5,770	n.
Northfield	873	10	29.18	30.18	+ .13	17.9	- 3.7	50	6	27	- 10	24	9	35	12	79	0.81	- 2.3	6	6,271	n.w.
Boston	125	27	30.00	30.14	+ .09	30.4	- 2.3	58	13	38	- 4	24	23	24	20	68	1.70	- 1.8	4	9,347	s.w.
Nantucket	14	11	30.11	30.12	+ .06	35.1	- 0.0	54	9	40	- 14	25	30	21	30	83	2.68	- 1.6	11	10,365	n.w.
Woods Hole	19		32.6	- 3.8	55	9	37	10	17	22	23	19	24	24	27	3.18	- 0.3	6	13,867	s.w.	
Vineyard Haven	11		34.8	- 2.6	57	13	42	10	27	22	23	19	24	24	27	3.08	+ 0.4	8	14,442	n.w.	
Block Island	27	17	30.12	30.15	+ .09	34.4	- 2.8	54	13	39	- 11	24	30	24	27	73	2.55	- 1.1	8	16,111	n.e.
Narragansett Pier	15		29.9	- 2.9	53	* 39	0	35	21	29	32	32	32	32	20	69	1.56	- 2.4	6	6,240	n.
New Haven	107	24	30.04	30.16	+ .07	29.4	- 3.1	53	13	37	- 2	22	32	32	20	69	1.6	1.0	6	7,527	n.
Mid. Atlan. States.																					
Albany	97	23	30.09	30.20	+ .12	26.2	- 4.1	50	6	33	- 7	28	19	30	20	82	1.12	- 2.1	2	6,046	s.
Binghamton	875		27.2	5.1	56	13	34	- 1	7	28	29	29	27	27	27	0.77	- 10	4	4,708	w.	
New York	314	27	29.83	30.18	+ .06	32.1	- 3.7	55	13	39	5	34	26	26	26	74	1.70	- 1.6	4	10,735	s.w.
Harrisburg	377	9	29.80	30.22	+ .06	38.0	- 1.4	58	13	39	9	38	25	25	25	68	0.40	- 2.6	5	5,928	w.
Philadelphia	117	26	30.07	30.20	+ .07	34.7	- 1.1	60	7	41	12	24	21	21	21	68	1.00	- 1.7	4	7,281	n.w.
Atlantic City	53		30.14	30.19	+ .08	34.8	- 2.0	59	7	42	10	24	32	32	25	77	0.85	- 3.0	5	9,618	n.
Baltimore	123	26	30.08	30.21	+ .07	36.4	- 2.1	66	13	43	14	24	36	36	35	65	0.37	- 2.8	5	3,342	w.
Washington	112	27	30.11	30.24	+ .08	35.6	- 2.2	66	7	44	12	28	37	34	34	67	0.30	- 2.7	5	4,985	s.
Cape Henry	23		30.26	30.26	+ .08	41.7	- 1.1	66	13	48	21	26	36	35	27	253	- 1.6	5	9,128	n.	
Lynchburg	685	26	29.49	30.26	+ .10	39.0	- 0.9	65	7	49	18	25	26	26	27	73	0.13	- 2.9	3	3,193	sw.
Norfolk	57	26	30.17	30.24	+ .10	41.2	- 3.0	65	7	49	20	24	34	32	33	3.21	- 0.5	6	6,290	ne.	
S. Atlantic States.																					
Charlotte	773	19	29.39	30.24	+ .07	41.6	- 2.3	68	11	50	18	4	33	29	31	72	1.87	- 3.2	6	5,060	ne.
Hatteras	11	17	30.19	30.20	+ .06	46.1	- 2.1	63	15	51	27	24	41	32	41	87	5.59	+ 0.1	8	11,606	n.
Kittyhawk + \$	9	23	30.19	30.20	+ .11	44.0	- 1.1	64	13	52	26	26	36	34	34	81	4.33	- 0.2	5	9,291	n.
Raleigh	375	10	29.84	30.25	+ .05	40.4	- 2.8	65	7	49	17	25	31	31	29	69	1.84	- 0.9	7	4,664	n.
Wilmington	73	26	30.14	30.23	+ .07	45.8	- 3.4	70	7	55	21	25	36	31	36	75	3.21	+ 0.2	10	5,907	n.
Charleston	53	26	30.20	30.25	+ .09	49.5	- 2.4	68	9	57	26	25	42	35	35	74	5.76	- 2.2	5	5,634	n.
Columbia	10		44.0	- 4.5	69	11	55	18	26	33	33	37	37	37	37	73	3.38	- 0.3	8	.....	.....
Augusta	180	25	30.04	30.24	+ .06	45.4	- 4.1	71	8	56	21	26	35	36	35	77	3.23	- 0.2	6	3,854	w.
Savannah	98	26	30.13	30.24	+ .06	49.8	- 3.1	72	9	59	28	25	41	40	40	68	8.86	+ 3.6	8	6,117	n.
Jacksonville	43	26	30.16	30.21	+ .05	53.8	- 2.9	74	9	62	34	3	46	30	46	217	2.17	- 0.7	8	5,169	n.
Florida Peninsula.																					
Jupiter	23	9	30.11	30.14	+ .08	66.0	- 1.6	83	9	72	44	23	60	25	58	80	3.35	+ 0.6	10	7,414	n.w.
Key West	32	27	30.11	30.13	+ .03	70.3	- 0.0	83	9	57	17	26	66	13	62	82	2.21	+ 0.6	12	8,950	ne.
Tampa	36	7	30.14	30.18	+ .02	60.2	- 2.6	80	8	69	40	25	51	39	53	94	1.35	- 1.4	9	4,891	n.
East Gulf States.																					
Atlanta	1,131	19	29.02	30.26	+ .06	44.2	- 1.1	69	8	52	20	25	36	29	35	74	1.42	- 3.0	4	7,000	n.w.
Pensacola	56	18	30.17	30.23	+ .07	52.6	- 2.7	75	11	61	31	25	44	35	43	75	2.09	- 2.7	6	7,024	n.
Mobile	57	26	30.20	30.24	+ .07	51.2	- 1.6	76	8	60	31	25	42	39	34	75	3.56	- 0.9	9	5,215	n.
Montgomery	221	25	30.01	30.25	+ .07	48.7	- 1.8	77	8	53	24	26	39	34	38	74	2.13	- 3.5	5	4,616	e.
Vicksburg	254	26	29.94	30.21	+ .09	52.2	- 1.9	75	15	62	30	25	42	35	38	77	1.38	- 3.6	4	5,096	se.
New Orleans	54	27	30.17	30.23	+ .09	54.6	- 1.9	78	14	62	32	1	47	24	45	78	3.77	- 0.6	10	7,157	n.
Port Eads.	10		57.7	- 1.8	76	8	64	38	2	51	20	25	35	35	39	74	2.29	- 1.3	8	.....	.....
West Gulf States.																					
Shreveport	249	26	29.95	30.22	+ .06	51.4	- 2.1	79	23	62	25	25	36	29	35	74	1.03	- 2.2	2	4,738	se.
Fort Smith	481	15	29.68	30.20	+ .04	46.2	- 3.0	74	11	53	19	1	35	41	32	82	0.75	- 3.9	3	4,372	e.
Little Rock	302	18	29.91	30.25	+ .08	46.8	- 1.6	73	11	57	21	1	36	34	33	83	0.5	- 0.6	5	4,746	n.w.
Corpus Christi	20	10	30.20	30.23	+ .08	57.6	- 0.5	80	14	66	32	1	50	30	50	83	0.51	- 3.8	5	7,104	n.w.
Galveston	42	26	30.20	30.24	+ .10	56.7	- 1.3	73	17	62	34	1	51	19	49	74	2.33	- 1.7	9	5,827	se.
Palestine	510	15	29.68	30.24	+ .09	53.0	- 2.6	80	23	64	23	2	42	23	27	63	1.13	- 1.7	4	4,653	ne.
San Antonio	704	18	29.48	30.24	+ .09	56.5	- 1.7	83	13	68	30	2	45	35	39	60	0.74	- 1.2	5	5,657	n.
Ohio Val. & Tenn.																					
Chattanooga	762	18	29.45	30.29	+ .10	43.7	- 0.1	69	10	54	19	25	34	32	32	70	1.41	- 2.1	2	4,895	ne.
Knoxville	980	26	29.20	30.28	+ .08	40.6	- 0.1	65	8	50	17	25	31	33	30	71	0.95	- 3.2	3	4,375	n.
Memphis	399	26	29.81	30.25	+ .07	46.8	- 3.3	73	11	55	21	1	35	34	33	75	3.56	- 3.6	4	6,054	s.
Nashville	545	27	29.65	30.25	+ .09	42.9	- 0.7	69	12	52	19	25	34	30	31	69	1.79	- 1.9	4	4,815	n.w.
Lexington	989	14	29.14	30.23	+ .06	38.4	- 2.1	63	12	46	13	1	31	36	32	69	2.56	- 0.5	6	9,347	s.
Louisville	525	26	29.65	30.24	+ .07	41.0	- 2.5	66	12	49	15	1	33	36	32	66	2.15	- 1.7	5	6,474	s.
Indianapolis	82																				

TABLE I.—Climatological data for Weather Bureau Stations, December, 1896—Continued.

Stations.	Elevation above sea-level, feet.	Length of record, years.	Pressure, in inches.	Temperature of the air, in degrees Fahrenheit.										Humidity and precipitation.			Wind.			Monthly temperature data since opening station.															
				Mean pressure, 8 a.m. and 8 p.m. + 2.		Mean reduced.		Departure from normal.		Mean maximum and minimum.		Departure from normal.		Maximum.		Mean minimum.		Greatest daily range.		Mean temperature of the dew-point.		Mean relative humidity, per cent.		Precipitation, in inches.		Total movement, miles.		Maximum velocity.		Cloudy days.		Average cloudiness, tenths.		Absolute maximum.	
				Mean	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Days with 0.1 or more.	Days with 0.1 or more.	Direction.	Miles per hour.	Date.	Clear days.	Year	Absolute minimum.	Year								
<i>Up. Miss. Val.—Con-</i>																																			
Springfield, Ill....	644	18	29.48	30.20	+ .03	36.2	+ 2.9	64	11	43	9	1	29	30	38	28	76	0.31	- 2.4	6	6,867	s.	26	se.	31	4	12	15	6.6	67	1889	-14	1880		
Hannibal.....	534		29.60	30.20	37.4	- 1.2	69	11	45	12	1	30	40	39	29	76	0.65	- 1.2	5	6,519	sw.	28	sw.	3	8	11	12	6.0	60	1889	1889		
St. Louis.....	567	26	29.60	30.23	+ .08	40.8	+ 4.5	68	11	48	17	1	34	27	30	30	71	1.05	- 1.8	4	7,575	s.	30	sw.	5	12	4	15	5.8	74	1875	-17	1872		
<i>Missouri Valley.</i>																																			
Columbia.....	8		39.3	4.2	72	11	49	12	1	30	43	.....	.....	.....	.....	.....	1.11	- 0.9	4	6,281	sw.	24	nw.	18	10	7	14	6.4	75	1889	-7	1892
Kansas City.....	963	9	29.15	30.21	+ .08	40.4	- 7.1	67	11	49	17	1	32	27	31	74	70	0.71	- 0.8	4	5,763	sw.	28	sw.	25	14	8	9	4.9	70	*	-13	1892		
Springfield, Mo....	1,324	11	28.76	30.20	+ .06	41.6	- 4.6	68	11	50	16	1	34	28	30	70	70	0.79	- 1.2	5	7,548	se.	36	se.	16	9	14	8	4.9	70	1889	-10	1892		
Topeka.....	10		41.0	- 6.8	69	11	52	17	1	30	38	0.31	- 0.8	3	s.	9	13	9	13	9	74	1889	-10	1892		
Omaha.....	1,103	26	28.95	30.17	- .03	35.2	- 8.2	56	28	43	10	2	28	32	38	79	50	- 0.5	3	4,988	n.w.	26	sw.	25	10	11	10	5.5	71	1890	-17	1884			
Sioux City.....	1,165	8	30.0	- 8.9	55	10	39	11	8	1	21	35	80	0.25	- 0.9	3	6,714	s.	25	se.	27	9	13	10	5.5	68	1890	-16	1892		
Pierre.....	1,460	22	28.48	30.11	- .06	29.4	- 8.9	56	29	38	11	7	20	38	32	80	0.28	- 0.2	1	5,077	se.	30	e.	13	8	13	10	5.5	67	*	-30	1884			
Huron.....	1,310	16	28.67	30.16	- .03	21.2	- 8.0	44	9	29	11	13	31	34	14	73	0.36	- 0.2	7	5,452	se.	46	se.	24	4	17	10	6.0	65	1894	-34	1884			
<i>Northern Slope.</i>																	0.11	- 0.4	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Havre.....	2,477	17	27.29	29.99	- .16	30.0	- 12.3	59	10	39	11	1	21	21	24	79	0.11	- 0.5	3	7,284	sw.	44	sw.	9	10	14	7	5.0	68	1885	-50	1884			
Miles City.....	2,372	20	27.46	30.04	- .12	31.4	- 12.1	59	9	40	17	1	30	25	30	73	0.09	- 0.2	3	3,792	sw.	24	se.	30	10	12	9	5.4	57	1881	-46	1879			
Helena.....	4,106	17	25.83	30.13	- .04	35.9	- 12.2	55	9	42	17	1	30	23	25	63	0.35	- 0.6	5	4,382	sw.	50	sw.	4	10	6	15	6.5	57	1885	-40	1890			
Rapid City.....	3,260	11	26.61	30.05	- .10	37.8	- 7.9	70	9	50	16	1	35	21	21	67	0.01	- 0.2	1	5,850	se.	36	se.	31	13	11	7	4.9	75	1890	-25	1882			
Cheyenne.....	6,105	26	24.04	30.19	- .02	36.4	- 6.9	61	12	48	8	0	24	39	6	36	0.03	- 0.2	1	8,924	n.w.	56	n.w.	4	11	13	5	5.3	64	*	-24	*			
Lander.....	5,372	13	24.70	30.28	- .10	27.4	- 4.7	53	4	49	16	1	36	16	16	89	T	0.5	0	2,313	sw.	25	n.w.	17	13	17	1	3.7	57	1890	-29	1892			
North Platte.....	2,826	23	27.16	30.21	- .02	36.2	- 8.5	64	12	49	7	1	23	30	23	71	0.21	- 0.4	2	5,487	w.	36	n.w.	16	12	17	3	3.9	70	1890	-27	1879			
<i>Middle Slope.</i>																	0.67	- 0.4	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Denver.....	5,290	26	24.79	30.22	+ .04	38.8	- 4.8	68	4	52	18	7	26	35	13	41	0.31	- 0.4	2	5,639	s.	36	w.	4	7	17	7	5.0	74	1885	-25	1876			
Pueblo.....	4,713	9	26.34	30.20	+ .07	38.4	- 3.7	74	22	54	10	1	32	50	13	44	0.63	- 0.1	4	4,154	n.w.	35	n.	31	14	13	4	4.7	74	1886	-18	1892			
Concordia.....	1,398	12	28.64	30.18	- .03	40.5	- 8.0	66	22	50	18	18	31	29	29	73	0.09	- 0.4	1	4,360	s.	27	se.	16	15	7	9	4.8	72	1889	-10	1887			
Dodge City.....	2,504	23	27.50	30.19	- .03	41.1	- 8.0	70	22	54	15	18	29	29	27	67	0.53	- 0.2	1	6,905	s.	40	s.	27	20	5	6	3.8	79	1894	-15	1876			
Wichita.....	1,351	9	28.71	30.19	- .08	42.4	- 7.8	73	22	52	16	18	31	37	32	67	0.63	- 0.3	3	5,676	s.	31	ii.	17	16	16	24	2	5	3.1	75	1896	-1	1894	
Oklahoma.....	1,218	7	28.88	30.21	- .07	46.4	- 4.7	75	22	57	17	1	34	39	32	70	1.22	- 1.2	4	5,385	s.	26	sw.	18	19	9	4	3.2	75	1894	0	1894			
<i>Southern Slope.</i>																	2.68	- 1.6	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Abilene.....	1,749	12	28.36	30.24	+ .06	49.4	- 2.7	76	*	61	17	1	38	37	33	64	24	0.48	- 1.0	5	6,104	sw.	32	sw.	16	17	9	5	3.5	81	1893	6	1894		
Amarillo.....	3,691	5	26.35	30.20	+ .04	48.8	- 6.9	72	22	56	17	1	31	35	26	58	0.54	- 0.2	2	10,486	s.	42	se.	29	18	9	4	3.2	75	1894	0	1894			
<i>Southern Plateau.</i>																	0.84	- 0.8	6	3,239	se.	26	sw.	18	20	5	6	3.6	75	1878	-13	1879			
El Paso.....	3,767	19	26.31	30.22	+ .07	47.1	- 2.0	71	5	62	21	1	32	42	21	43	0.06	- 0.5	1	7,148	n.w.	58	n.w.	16	20	9	2	2.6	76	1899	-5	1880			
Santa Fe.....	6,908	24	22.94	30.23	+ .08	35.8	- 3.1	57	22	63	18	18	30	31	16	52	0.67	- 0.2	2	4,301	ne.	24	se.	24	19	9	4	3.6	65	1878	-13	1879			
Phoenix.....	1,076	18	28.93	30.08	- .03	54.2	- 1.2	52	22	63	23	8	40	39	33	50	0.67	- 0.4	2	2,294	e.	26	nw.	16	19	11	1	2.7	77	1893	25	1891			
Yuma.....	139	21	29.94	30.09	+ .03	58.6	- 1.3	78	3	71	41	30	46	34	31	46	0.78	- 0.3	3	4,610	n.	34	nw.	28	24	6	1	1.9	83	1893	25	1891			
<i>Middle Plateau.</i>																	0.62	- 1.1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Carson City.....	4,720	10	25.34	30.30	- .00	34.8	- 6.3	63	4	51	15	21	25	43	33	79	1.18	- 0.6	11	4,732	se.	28	s.	14	2	6	23	8.1	53	1892	-6	1891			
Winnebucca.....	3,410	18	25.76	30.22	+ .01	37.0	- 5.2	66	14	48	16	26	33	39	33	61	0.23	- 1.1	3	6,497	sw.	49	sw.	14	8	13	10	5.9	65	1878	-20	1879			
Salt Lake City.....	4,344	23	25.79	30.31	+ .07	36.2	- 1.7	54	26	45	17	1	38	39	37	73	0.84	- 0.8	6	3,239	se.	26	sw.	18	2	13	16	7.3	61	1874	-10	18			

TABLE II.—*Meteorological record of voluntary and other cooperating observers, December, 1896.*

Stations.	Temperature. (Fahrenheit.)			Precipita- tion.		Stations.	Temperature. (Fahrenheit.)			Precipita- tion.		Stations.	Temperature. (Fahrenheit.)			Precipita- tion.	
	Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.		Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.		Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.
<i>Alabama.</i>																	
Alco ^t	74	22	49.1	Ins.	2.33		Willcox* ^b	68	26	43.6	0.00						
Ashville* ^t	76	17	43.6	1.11			Amity	78	18	46.6	0.82						
Bermuda ^t	76	23	49.4	2.88			Arkansas City ^t	76	17	44.2	0.40						
Birmingham ^t	73	20	48.0	1.07			Blanchard Springs ^t	73	20	46.9	0.52						
Brenton.....	68	20	45.6	3.25			Brinkley.....	76	20	46.8	0.83						
Bridgerton ^t				1.29			Camden a ^t				0.58						
Citronelle ^t	74	29	51.4	2.47			Camden b ^t	73	17	44.8	1.48						
Clanton ^t	73	22	47.0	2.32	T.		Canton* ^t	69	13	41.0	.....					
Cordova ^t				1.39			Conway* ^t	68	21	44.7	1.26						
Daphnet ^t	77	24	49.7	2.62			Corning ^t	70	14	41.5	1.27						
Decatur ^t	69	15	42.0	1.69			Dallas.....	72	17	46.2	1.15						
Demopolis ^t				0.70			Dardanelle.....				0.73						
Elba ^t	74	19	47.7	1.85			Eton ^t	78	20	49.2	0.47						
Eufaula a ^t	74	26	48.2	3.38			Fayetteville ^t	75	13	44.7	0.60						
Evergreen ^t	73	22	45.7	3.01			Forrest.....	76	20	46.8	0.85						
Florence ^t				1.42			Helena a ^t				0.28						
Florence b ^t	68	20	44.2	1.45			Hot Springs a ^t	63	22	42.7	.....					
Fort Deposit ^t	77	20	46.8	0.80			Hot Springs b ^t				1.07						
Gadsden.....	72	20	44.6	0.57			Hot Springs (near).....				1.50						
Goodwater ^t	76	20	45.8	0.50	T.		Keesees Ferry ^t	75	8	43.4	0.45						
Greensboro ^t	75	24	48.3	0.98	0.1		Lacrosset ^t	71	13	42.2	0.15						
Hamilton.....				0.81			Lono ^t * ⁱ	73	22	46.2	0.62						
Healing Springs ^t	83	16	47.8	4.77			Luna Landing* ^b	75	25	49.9	0.15						
Highland Home ^t	73	27	50.0	2.00			Lutherville ^t	73	17	46.0	.....					
Livingston.....	75	20	50.2	0.35			Malvern ^t	75	18	45.7	0.98						
Lock No. 4.....				0.87			Marianna ^t * ⁱ	72	24	47.9	.....					
Madison Station ^t	69	16	43.2	1.29			Marvell.....	73	22	47.1	0.20						
Marion ^t	74	27	47.8	2.00			Moore.....				0.39						
Montgomery.....				1.0			Mossville.....	68	19	44.6	1.29						
Mount Willing ^t	77	22	49.3	1.95			Mount Nebo ^t	67	17	45.3	1.78						
Newbern ^t	74	23	47.8	1.40			New Gascony ^t * ⁱ	68	22	45.4	0.62						
Newburg.....	68	13	44.5	0.60			Newport a ^t				0.82						
Newton ^t	78	20	48.0	2.96			Newport c ^t	73	15	45.4	0.79						
Opelika ^t	79	22	48.6	1.30			Oregon* ^t	70	14	41.8	.....					
Oxanna ^t	70	18	43.2	0.66	1.0		Osceola ^t	76	18	45.2	0.81						
Pineapple ^t				2.15			Ozark ^t	70	21	46.4	0.90						
Pushmataha ^t	77	22	47.8	1.50			Picayune ^t				1.75						
Rockmills ^t	76	19	48.9	2.20	2.0		Pinebluff ^t	78	21	50.1	0.57						
Scottsboro ^t	71	17	42.6	1.30			Pocahontas ^t	70	15	41.5	1.33						
Selma ^t	70	20	44.6	0.59			Postelle.....				0.18						
Talladega ^t * ⁱ				1.30			Prescott ^t	78			1.26						
Tallassee ^t				1.11			Rison ^t	74	20	50.2	2.00						
Tuscaloosa ^t	75	20	46.0	0.37			Silver Springs ^t	70	9	41.0	0.38	T.					
Union ^t	75	21	48.6	0.37			Stuttgart ^t	71	19	45.4	0.55						
Union Springs ^t	74	22	46.4	2.95			Texarkan ^t	81	20	50.6	0.60						
Uniontown ^t	78	25	49.7	1.87			Warren ^t	75	18	49.0	2.75						
Valleyhead ^t	68	15	43.1	0.77			Washington ^t * ⁱ	75	25	48.5	0.77						
Warrior ^t				1.40			Wiggins ^t * ⁱ	74	18	49.4	0.96						
Wetumpka.....				1.78			Witts Springs ^t	73	12	44.3	1.45						
Wilenville ^t				1.36	T.												
<i>Alaska.</i>																	
Killisnoo.....	41	24	33.6	8.25	21.0												
<i>Arizona.</i>																	
Benson* ^a	71	31	46.8	0.00													
Bisbee ^t	71	31	49.4	0.36													
Bucket ^t	94	28	57.1	0.30													
Casa Grande* ^b	70	30	56.9	0.70													
Congress.....	73	36	55.5	1.04													
Dragoon ^t				0.00													
Dragoon Summit* ^b	82	32	51.4	0.05	0.5												
Dudleyville ^t	73	26	48.7	0.47													
Eagle Pass* ^a				33.2	0.57	T.											
Farleys Camp ^t	78	33	56.8	1.00													
Fort Apache.....	64	10	38.5	0.68	1.1												
Fort Grant ^t	74	21	49.2	0.24	0.1												
Fort Huachuc ^t	78	27	52.0	0.40													
Fort Mohave.....	80	36	55.8 ^c	1.41													
Gilabend a ^t	76	40	57.3	1.40													
Glendale.....	75	31	53.2	0.63													
Holbrook ^t	63	13	34.6	0.38													
Ingleseide.....	77	32	53.8	0.70													
Lochiel.....				0.20													
Maricopa* ^a	89	30	58.8	0.00													
Mesa ^t	75	32	52.6	0.75													
Mount Huachuca.....	69	26	46.4	0.42													
Natural Bridge.....				0.62													
Oracle ^t	66	33	50.0	1.41	2.0												
Oro.....				0.42													
Oro Blanco.....	78	29	52.4	0.37													
Pantano* ^b	60	29	46.5	0.08													
Parker ^t	79	28	53.1	0.52													
Payson.....				1.15	1.5												
Peoria ^t	74	36	53.0	0.73													
Phoenix.....	74	29	51.4	0.60													
Pinal Ranch.....				1.18	2.0												
Reymert ^t	82	35	59.2	0.91													
San Carlos ^t	72	24	45.8	0.35													
San Simon* ^a	73	32	49.6	0.17													
Showlow.....				0.45	0.8												
Signal ^t	72	30	51.4	1.71													
Sulphur Spring Valley ^t				0.32													
Texas Hill* ^a	80	32															

TABLE II.—*Meteorological record of voluntary and other cooperating observers—Continued.*

Stations.	Temperature. (Fahrenheit.)			Precipita- tion.		Stations.	Temperature. (Fahrenheit.)			Precipita- tion.		Stations.	Temperature. (Fahrenheit.)			Precipita- tion.	
	Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.		Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.		Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.
<i>California—Cont'd.</i>																	
Sacramento <i>a</i>	64	33	49.5	2.02	In.	Meeker <i>t</i>	49	1	25.0	0.47	3.8	Plant City <i>t</i>	84	34	60.0	In.	In.
Salinas* ⁶	65	36	47.7	1.75		Millbrook <i>t</i>	63	-6	28.3	0.70	7.0	St. Francis <i>t</i>	84	30	58.0	1.31	
Salton* ⁹	72	45	56.4	0.62		Minneapolis <i>t</i>	71	15	41.9	0.67		St. Francis Barracks	79	35	55.5	2.28	
San Bernardino <i>t</i>	81	31	54.5	1.09		Montrose <i>t</i>	50	-2	26.9	0.45	4.5	Tallahassee <i>t</i>	73	30	51.0	5.70	
San Jacinto	74	32	51.0	1.70		Moraine <i>t</i>	56	-7	33.2	0.30	3.0	Tarpon Springs <i>t</i>	78	37	58.6	1.68	
San Jose <i>b</i>	64	28	48.4	2.55		Pagoda <i>t</i>	50	-9	24.2	0.95	9.5	<i>Georgia.</i>					
San Leandro* ¹	75	42	55.5	2.89		Paonia <i>t</i>						Adairsville <i>t</i>	67	18	41.1	1.23	
San Luis L. H.				3.18		Parachute <i>t</i>	45	5	24.6	1.20	12.0	Albany <i>t</i>	70	28	50.4	1.78	
San Mateo* ⁸	65	42	53.2	2.98		Pinkhamton* ⁵	48	5	28.3	0.30	3.0	Allentown <i>t</i>	70	20	47.0	5.21	0.5
San Miguel* ⁸	67	27	45.8	1.89		Pueblo						Americus <i>t</i>	74	20	46.8	4.13	
San Miguel Island	76	42	55.6	1.36		Rangely <i>t</i>	44	-3	22.8	0.15	2.0	Atlanta					6.2
Santa Ana* ⁸	78	40	60.1	2.27		Kedclif						Augusta					1.0
Santa Barbara <i>a</i>	79	44	58.1	2.92		Rico <i>t</i>	48	2	26.6	1.70	17.0	Blakely* ⁴	75	25	50.1	3.11	
Santa Barbara L. H.				2.52		Rockyford <i>t</i>	72	10	36.2	0.70		Brag <i>t</i>	79	30	47.5	6.86	
Santa Clara <i>a</i> * ⁸	66	36	50.7	2.69		Ruby						Canton <i>t</i>	71	17	44.6	0.68	1.1
Santa Cruz <i>b</i> †	76	30	53.4	4.87		Saguache <i>t</i>	50	-7	20.8	0.30	3.0	Clayton <i>t</i>	69	9	44.5	4.0	
Santa Cruz L. H.				4.77		St. Cloud						Covington	66	12	41.7	1.11	
Santa Maria	80	38	57.9	2.34		Santa Clara* ¹	60	10	32.5	4.95	49.5	Dahlonega <i>t</i>	74	15	43.0	0.97	2.0
Santa Monica* ⁸	80	45	63.6	2.01		Seibertt						Diamond <i>t</i>	65	12	39.2	1.71	T.
Santa Paula <i>b</i> †	78	38	55.4	3.13		Smoky Hill Minet	63	9	32.1	0.20	2.0	Dublin					
Santa Rosa* ⁸	64	36	50.2	6.42		Stamford* ¹	58	2	27.0	2.50	25.0	Elberton <i>t</i>	75	22	46.6	2.82	7.0
Saticoy				2.25		Steamboat Springs <i>t</i>	48	-12	20.6	0.65	6.5	Fleming <i>t</i>	70	23	46.8	7.62	
Shafts				13.10		Sulphur Springs <i>t</i>	52	-15	20.6	0.35	8.0	Gainesville	72	15	41.6	2.02	6.0
Sierra Madre	78	41	57.3	1.91		Surface Creek <i>t</i>	56	3	30.2	0.30	3.0	Hawkinsville	76	19	44.7	0.40	
Stanford University	64	34	50.2	1.57		T. S. Ranch <i>t</i>	69	14	37.9	0.40	4.0	Hephzibah* ¹	68	30	48.8	4.10	
Stockton <i>a</i>	65	31	48.2	1.12		Twin Lakes						Lagrange <i>t</i>	74	21	48.0	1.69	1.6
Summerdale	58	25	40.8	4.56	18.0	Vilas						Louisville <i>t</i>	74	23	46.6	5.02	0.2
Susanville <i>t</i>	56	22	38.8	2.96	7.5	Wallet <i>t</i>						Macomb <i>b</i>					5.01
Sutter Creek* ⁶	58	25	42.3	2.84		Wray <i>t</i>	70	11	38.1	0.20	T.	Marshallville <i>t</i>	70	24	47.2	4.75	
Tecarte Dam				2.11		Yuma						Milledgeville <i>t</i>	72	26	47.0	4.62	2.0
Tehama* ⁸	60	38	50.7	4.33		Connecticut.						Monticello* ¹	70	26	48.3	2.70	
Templeton* ⁸	68	32	47.8	2.82		Bridgeport	53	-1	29.0	2.00	17.2	Morgan <i>t</i>	77	22	47.3	5.01	
Trinidad L. H.				8.59		Canton <i>t</i>	54	-11	26.2	1.61	10.0	Newnan <i>t</i>	70	20	45.2	0.95	
Truckee* ⁸	58	14	34.0	2.50	18.0	Colchester	55	-5	28.4	3.07	19.0	Piscata	77	29	51.8	6.50	
Tulare <i>b</i>				0.48		Falls Village						Point Peter* ¹	68	18	40.9	3.15	6.0
Turlock <i>b</i> †	67	28	48.0	1.41		Greenfield Hill						Poulant	79	23	49.1	4.92	
Ukiah <i>t</i>	62	29	47.5	10.60		Hartford <i>b</i>						Quitman <i>t</i>	77	26	50.2	6.68	
Upper Mattole* ¹	69	37	51.0	18.49		Hartford <i>c</i>	52	-5	28.4			Resaca <i>t</i>					0.99
Vacaville <i>a</i> * ⁸	63	35	49.6	3.54		Lake Konomoc						Rome <i>t</i>	70	19	42.8	1.47	
Ventura <i>t</i>	84	36	55.3	2.58		Middletown	54	-12	28.0	2.62	24.0	Talbotton <i>t</i>	72	24	45.4	3.09	
Volcano Springs* ⁸	84	39	60.2			New Haven						Tallapoosa	70	17	44.0	1.37	2.0
Walnutcreek	68	33	51.6	4.01		New London <i>t</i>	53	-1	30.6	2.75	19.2	Thomasville <i>t</i>	78	28	50.8	7.67	
Westpoint <i>t</i>				4.94		North Grosvenor Dale	49	-13	22.6	3.00		Toccoa <i>t</i>	70	20	42.6	1.04	7.0
Wheatland <i>t</i>	64	32	47.9	2.40		South Manchester						Washington <i>t</i>					3.80
Williams* ⁸	66	36	50.7	4.10		Storrs	54	-3	25.6	2.67	14.0	<i>Idaho.</i>					
Wilmington* ⁵	77	40	61.6			Voluntown <i>t</i>	55	-14	28.3	2.20	12.0	American Falls	46	15	31.2	1.00	
Wire Bridge* ⁶	63	30	49.5	3.04		Wallingford <i>t</i>						Blackfoot <i>t</i>	48	6	29.4	0.46	1.8
Yerba Buena L. H.				2.74		West Cornwall <i>t</i>	51	-4	25.0	1.78	23.2	Boise Barracks	55	10	35.8	1.48	T.
Yreka <i>t</i>	58	24	38.0	3.70	3.0	Windsor	51	-9	26.6	2.31	10.3	Burnside <i>t</i>	51	9	27.8	1.13	
Engineers Quarters <i>t</i>	61	39	51.7	2.71		Dover <i>t</i>	60	9	33.7	1.51	8.5	Chesterfield <i>t</i>	48	-2	25.5	0.68	5.0
Morses House <i>t</i>				1.98		Milford	67	12	36.6	1.57	4.5	Coeur d'Alene	54	11	36.0		
Deep Creek <i>t</i>				2.41		Millsboro	62	10	35.1	1.77	7.0	Corral <i>t</i>	41	-1	25.0	1.30	13.0
Holcomb Creek <i>t</i>				1.82		Newark	57	7	31.1	0.56	4.5	Fort Sherman	51	15	35.0	4.94	3.8
Squirrel Inn <i>t</i>				2.23		Seaford <i>t</i>	61	12	34.9	1.01	5.5	Gimlet <i>t</i>	43	6	25.8	1.66	15.5
<i>Colorado.</i>						District of Columbia.	60	13	36.0			Grangeville	57	21	38.1	1.49	6.8
Almat	52	-3	23.2	0.16		Distributing Reservoir* ⁶	57	11	35.6			Idaho City	48	12	31.8	3.62	21.7
Antlers <i>t</i>	46	11	28.2	0.36	4.2	Receiving Reservoir* ⁵	57	11	35.6			Idaho Falls					6.7
Arkins				0.43		Washington						Kootenai <i>t</i>	52	11	31.0	5.04	38.0
Boxelder				3.5		West Washington	68	12	34.6	0.39	2.1	Laker	34	-8	20.0	1.40	14.0
Breckenridge <i>t</i>	58	-16	21.2	0.73	7.4	Florida.						Lewiston <i>t</i>	59	20	41.4	1.97	3.8
Canyon <i>t</i>	70	12	41.3	0.08		Amelia <i>t</i>	70	33	52.0	2.99		Lost River <i>t</i>					
Casterrock <i>t</i>	59	5	31.7	0.45	4.5	Archer <i>t</i>	79	30	55.0	2.85		Martin <i>t</i>	45	1	23.8	0.20	2.0
Coilbran.				1.15		Bartow	82	36	60.2	2.11		Minidoka <i>t</i>	63	-3	31.9	0.37	5.5
Colorado Springs <i>t</i>	66	15	36.8	0.07	0.5	Brooksville <i>t</i>	78	37	57.5	1.34		Moscow <i>t</i>	57 ^a	20	38.4	3.10	
Cope <i>t</i>	64	18	38.8	0.33	1.0	Clermont <i>t</i>	82	40	60.6	1.07		Murray <i>t</i>	52	18	31.8	4.84	20.0
Cripple Creek <i>t</i>	71°	8°	36.0°	1.04	1.0	De Funjai Springs	76	26	51.1	2.25		Nampa	50	13	32.8	1.76	
Delta	49	-5	23.0	0.35	3.5	Earnestville <i>t</i>	81	37	59.0	1.26		Ola <i>t</i>	62	14	33.7	4.42	17.0
Denver				4.6		Emerson <i>t</i>	79	27	53.2	2.07		Paris <i>t</i>	55	2	24.5	0.71	
Downing <i>t</i>	70	13	41.4	0.80	8.0	Eustis <i>t</i>	83	35	59.1	1.82		Payette <i>t</i>	55	14	34.2	1.20	0.5
Dumont* ⁴	60	8	44.4	0.60	6.0	Federal Point <i>t</i>	79	35	55.6	3.67		Pollock <i>t</i>	55	14	39.6	0.93	
Durango <i>t</i>	53	6	32.2	0.86	9.0	Fort Meade <i>t</i>	83	34	58.6	2.84		Rexburg <i>t</i>	44	0	26.1		
Fleming.				T.	Frostproof* ¹	83	33	60.4	1.98		Roseberry <i>t</i>	39	-10	26.2	1.99	15.0	
Fort Collins <i>t</i>	66	0	34.0	0.24	3.0	Grasmere <i>t</i>	80	37	58.9	1.75		Salubria <i>t</i>	48	11	31.6	3.21	14.8
Garnett.				0.20	2.0	Huntington	81	38	58.0	1.23		Shoup	47</				

TABLE II.—*Meteorological record of voluntary and other cooperating observers—Continued.*

Stations.	Temperature. (Fahrenheit.)			Precipita- tion.			Stations.	Temperature. (Fahrenheit.)			Precipita- tion.			Stations.	Temperature. (Fahrenheit.)			Precipita- tion.		
	Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.			Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.			Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.	
<i>Illinois—Cont'd.</i>							<i>Indiana—Cont'd.</i>							<i>Iowa—Cont'd.</i>						
Carrolton	65	10	36.5	Ins.	Ins.		Franklin *†	61	10	36.1	1.13	T.		Iowa City b	57	4	33.5	Ins.	Ins.	
Catlin	60	5	31.8	0.50			Greencastle †	59	9	35.2	1.14	T.		Iowa Falls †	52	7	29.1	0.56	2.2	
Charleston	62	10	36.2	1.08	T.		Greensburg				1.68	T.		Keokuk						
Chemung *†	53	1	27.9	0.77	5.0		Hammond †	54	5	32.6	0.42	4.0		Knoxville	62	9	33.1	0.52	T.	
Chester				0.20			Huntington	58	10	32.5	1.65	4.5		Lansing	57	1	38.2	0.45	T.	
Chicago							Indianapolis				0.1			Larchwood						
Cisne *†	64	11	37.6	0.43			Jasper †	63	13	38.7	1.00			Larrabee †	51	3	27.8	0.47	1.0	
Clearcreek †	57	6	32.2	0.12	T.		Jeffersonville	63	15	39.5	2.21	T.		Leclaire †				0.33	1.7	
Coatsburg †	63	7	36.4	0.66	T.		Knightstown †	60	9	34.6	1.42	0.2		Lemars	48	1	39.1	0.06		
Cobden †	69	11	40.2	0.88			Kokomo †	59	10	34.6	1.32	T.		Lenox *†	60	12	34.4	0.61	0.3	
Decatur †	64	7	35.8	0.32	T.		Laconia	64	11	38.5	1.10			Logan †	55	5	31.4			
Dixon †	58	4	30.6	0.44			Lafayette †	61	7	34.1	0.78	0.2		Madrid	57	9	31.7	0.57	2.0	
Dwight †	58	1	31.8	0.11			Logansport b †	58	11	38.5	0.58			Malvern *†	60	10	32.2	0.46	T.	
East Peoria †	63	5	34.7	0.27	T.		Madison †	63	14	38.6	1.42	T.		Maquoketa	54	4	30.5	0.58	4.5	
Effingham †	68	11	36.8	0.52			Marengo †	61	13	35.0	1.36	T.		Marshall †	58	9	27.8	0.55	1.0	
Evanston *†	58	5	32.1				Marion †	58	10	34.1	1.54	0.2		Mason City †	50	—	26.0	0.85	3.5	
Fort Sheridan †	55	5	30.6	0.65	5.3		Mauzy †	58	7	33.6	1.43			Mechanicsville	54	7	29.6	1.57	8.0	
Friendsgrove *†	18	39.6	0.50				Mount Vernon †	67	15	40.3	0.77	T.		Millman				0.84		
Galva †	59	4	32.0	0.30	2.0		Northfield †	57	8	33.2	1.26			Monticello *†	53	8	29.9	0.67	3.3	
Glenwood *†	59	24	29.8	0.14	1.5		Scottsburg	63	14	38.6	1.07			Moar	66	6	33.8	0.60		
Golconda †	66	13	39.6	1.29			Seymour †	62	14	36.9	1.63	0.5		Mountain Pleasant *†	59	12	35.1	1.35	1.5	
Grafton †				0.50			South Bend †	61	4	31.9	0.37	3.2		Mount Vernon *†	56	8	31.0	0.90		
Greenville †	64	7	37.4	0.82			Sunnan	57	10	34.3	1.99	0.2		Neola	55	4	30.4	0.45		
Griggsville †	67	12	37.6	0.38	T.		Syracuse †				0.85	5.0		Newton †	57	7	31.5	0.89	1.0	
Halliday *†	664	14	37.4	0.89			Terre Haute †	61	14	38.9	1.13	T.		North McGregor †				0.27	2.7	
Havana †	67	8	36.8	0.33	1.0		Tipton †	58	6	34.2	1.63			Northwood	55	—	27.5	0.90	2.0	
Herrin *†	62	16	43.4	0.46			Topeka †	52	—	30.3	0.76	5.1		Ogden	58	7	31.6	0.47	2.0	
Hillsboro †	61	10	37.0	0.77	T.		Valparaiso †	60	8	32.2	0.44	3.0		Osage *†	2	24.9	0.83	5.0		
Iron †	65	14	40.0	0.67			Vevay	65	14	41.3	1.25			Osceola	61	7	34.6	0.50	0.2	
Joliet †	66	8	34.4	0.36	0.4		Vincennes	63	12	37.6	0.38			Oskaloosa †	63	14	34.8	0.29	T.	
Jordans Grove †	68	14	39.8	0.20			Warsaw †	62	8	33.4	1.86			Ottumwa	66	8	34.4	1.43	0.4	
Kankakee †	61	10	33.3	0.17	0.7		Washington †	64	13	40.0	0.64	1.0		Ovid †	64	7	34.8	0.72	0.2	
Kishwaukee	54	5	28.6	0.23	2.0		Worthington †	61	11	36.8	0.87	T.		Plover				0.75	T.	
Knoxville a *†	63	—	34.4	0.38	1.0		<i>Indian Territory.</i>							Portsmouth	67	—	34.8	0.40	0.1	
Lagrange †	57	6	31.3	0.10	0.8		Eufaula †							Pringhar	46	0	27.0	0.18	1.0	
LaHarpe *†	58	8	34.8	0.90	T.		Headton †	73	8	45.0	2.67			Rock Rapids	48	—	27.2	T.	T.	
Lanark *†	54	1	29.0	0.95			Lehigh †	78	12	45.8	0.79			Sac City †	51	6	29.7	1.25	2.0	
Lexington	61	5	34.3	0.15			South McAlester	70	10	41.2				St. Charles *†	58	12	32.2	0.25		
Loami †				0.22	T.		Tahlequah	74	14	46.8	1.12			Seymour †	60	6	34.0	0.55	T.	
Louisville †	65	11	37.7	0.31			Tulsa †				0.90			Sibley	49	—	25.4	0.27	0.7	
McLeansboro †	65	14	38.9	0.70			Wagoner	70	17	44.4	0.37			Sidney	59	12	35.6	0.64	T.	
Martinsville †	61	10	36.4	1.41			<i>Iowa.</i>							Sigourney	62	6	32.6	0.60	T.	
Martinton †	64	7	34.0	0.18	T.		Adair							Sioux City				0.1		
Mascoutah *†	68	8	38.8	0.10			Afton	58	6	33.9	0.53			Spencer	47	2	26.8	0.36	0.7	
Mattoon *†	60	14	37.7	0.88			Algona *†	50	4	28.5	1.29	6.5		Spirit Lake †	45	1	25.8	0.40	1.3	
Minonk †	58	5	33.9	T.			Alta †	49	4	27.6	0.46	0.5		Toledo	53	—	29.8	0.90	0.5	
Monmouth †	63	3	34.0	0.35			Amana †	52	9	30.8	0.45			Villisca †	56	12	32.9	1.24	1.0	
Morrisonville †	60	8	35.8	0.44			Ames b	55	8	30.6	0.37	0.8		Vinton *†	57	9	31.5	0.78	2.5	
Mount Carmel †				0.41			Atlantic	55	6	31.8	1.23			Waterloo	55	—	28.5	0.45	1.3	
Mount Pulaski	63	9	35.5				Atlantic (near)	52	9	32.6	0.52			Waverly	53	5	28.7	0.27	0.8	
Mount Vernon	68	20	41.1	0.29			Charles City †	54	2	27.0	0.65	4.1		Webster City	51	8	29.8	0.46	3.0	
New Burnside †	66	13	41.1	0.68	T.		Clarinda †	58	14	35.8	0.96	0.5		Westbend *†	49	1	27.0	0.85	2.0	
Olney a *†	63	10	38.6	0.46			Clinton	56	2	30.6	0.82	3.0		Wilton Junction †	56	7	31.3	0.73	4.5	
Oregon †	54	5	29.0	0.30			College Springs	64	10	36.0	1.25			Winterset †	60	9	32.4	0.73		
Oswego *†	56	4	30.1	0.15			Council Bluffs	64	7	34.6	0.91			<i>Kansas.</i>						
Ottawa †	58	5	32.0	0.23	0.8		Cresco †	47	—	24.8	0.67	4.0		Abilene †	66	15	40.0	0.15		
Palestinet	62	12	37.8	0.54	T.		Decorah †	48	—	27.0	0.67	3.5		Achilles *†	65	8	28.3	0.52	0.2	
Peoria a †	61	13	36.8	0.40	T.		Davenport	63	5	27.9	0.94	3.5		Altoona *†	63	14	39.9	0.69		
Phil †	63	2	33.9	0.83	T.		Des Moines	65	5	32.5	T.			Anthony				0.60		
Plumhill *†	68	16	39.6	0.45			Dows	54	1	27.1	0.89	2.5		Assaria *†	64	12	34.9	T.	T.	
Rantoul †	63	5	33.9	0.30	T.		Dubuque	60	5	30.6	0.30	3.8		Atchison †	69	13	38.0	0.87	T.	
Reynolds	59	5	32.2	0.93	2.1		Eldora	60	5	30.6	0.30	3.0		Augusta	70	12	40.2	0.36		
Riley †	52	3	28.3	0.43	3.5		Elkader †	56	—	28.1	0.65	1.0		Beloit †	62	14	38.2	0.15	T.	
Robinson *†	61	9	34.1	0.68			Esterville	48	—	25.7	0.30	1.0		Blaine	67	15	38.2	0.33	T.	
Rose Hill *†	64	8	30.0	0.90	3.5		Fairfield †	60	6	34.8	0.73	0.5		Campbell	63	16	37.8	0.34		
Rose Hill *†	66	10	38.9	1.30			Fayette †	53	0	28.6	1.01	1.2		Colby †	67	9	37.2	0.16		
Roundgrove †	58	8	30.6	0.39			Fonda				0.44			Columbus †	68	11	40.4	1.14	T.	
St. Charles *†	55	5	31.9	0.61	2.0		Forest City	50	—	24.9	1.07	8.0		Concordia	60	7	38.0	0.42		
St. John *†	63	13	39.0	1.31			Fort Madison *†	69	14	36.8	1.00	1.0		Coolidge †	66	10	38.0	0.38	T.	
Scales Mound	54	—	4	28.7	1.13	6.0		Denison †	65	5	32.5	T.			Cunningham †	69	10	40.9	0.38	T.
Springfield													Dodge City				0.20	T.		

TABLE II.—*Meteorological record of voluntary and other cooperating observers—Continued.*

Stations.	Temperature. (Fahrenheit.)			Precipita- tion.	Stations.	Temperature. (Fahrenheit.)			Precipita- tion.	Stations.	Temperature. (Fahrenheit.)			Precipita- tion.		
	Maximum.	Minimum.	Mean.			Rain and melted snow.	Total depth of snow.	Maximum.			Minimum.	Mean.				
Kansas—Cont'd.																
Lawrence	68	8	39.4	0.47	Inns.	Cheneyville t.	76	23	48.8	2.01	Maryland—Cont'd.	○	○	○	Inns.	Inns.
Lebo†	66	14	39.4	0.43		Clinton t.	75	25	50.5	1.44	Sunnyside	59	— 2	28.9	2.71	7.5
McPherson t.	60	12	38.5	0.62		Davis	75	20	52.1	0.54	Taneytown t.	63	4	33.7	0.49	3.8
Manhattan b.	71	18	39.8	0.26	T.	Donaldsonville t.	80	30	54.3	1.44	Van Bibber	58	10	32.2	0.33	...
Manhattan c.	73	12	39.7	T.		Elm Hall	80	20	50.8		Western Port	63	8	32.4	0.67	4.2
Marion t.	67	14	39.8	0.39		Emilie t.	77	30	51.5	3.74	Westminster	58	7	35.2	0.30	3.0
Meade†	...	...	...	0.60		Farmerville	77	22	48.2	0.80	Woodstock	63	4	31.4	1.00	3.0
Medicine Lodge†	72	13	41.0	0.55		Franklin t.	74	30	51.8	2.42	Massachusetts.					
Minneapolis†	65	17	39.4	0.12	T.	Grand Coteau	77	23	53.5	1.35	Adams	51	— 7	26.3		6.0
Morantown t.	66	15	39.6	0.64	T.	Hammond t.	77	27	51.0	2.05	Amherst	53	— 9	26.6	0.87	3.0
Morland	71	9	38.7	0.00		Houna t.	80 ^a	20 ^a	52.2 ^a	4.25	Andover†	...	...	...	2.34	9.5
Morton t.	73	15	40.8	0.68		Jeanerette	78	23	57.0	2.19	Ashland	...	...	...	2.08	9.0
Mount hope* ¹	68	16	41.6	0.37		Lafayette t.	...	...	...	...	Attleboro	...	...	...	1.11	...
Norton	63	7	34.5	0.00		Lake Charles t.	80	23	55.2	2.20	Bedford	55	— 6	27.1	1.77	8.0
Norwich t.	77	15	42.4	0.55		Lawrence t.	77	25	53.2	3.71	Bluehill (summit)	55	0	26.8	1.81	14.0
Oberlin t.	...	...	...	0.10		Liberty Hill	82	23	51.0	1.12	Bluehill (valley)	57	...	25.6	1.78	...
Olathe†	67	13	40.8	0.32		Mansfield t.	78	18	47.8	1.24	Boston a.	...	...	...	1.65	...
Osage City t.	65	12	39.0	0.22		Maurepas	77	27	50.6	2.34	Boston (W. B.)	...	...	...	8.6	...
Ottawa t.	68	11	39.4	0.48		Melville	...	...	...	...	Brockton a.	55	0	27.9	2.08	17.0
Paola t.	63	12	41.0	1.20		Minden t.	79	20	47.0	0.77	Cambridge a.	59	0	28.3	1.57	...
Phillipsburg t.	64	4	37.2	0.62		Montgomery	78	28	48.8	0.51	Chestnut Hill	58	— 3	27.9	1.89	7.2
Pleasant Dale	19	...	...	0.12		New Iberia	76	30	53.4	2.80	Clinton a.	60	0	29.2	1.15	...
Powhatan	63	13	38.2	0.90	T.	Oakridge t.	80	21	53.2	0.54	Clinton b.	...	...	...	2.35	10.0
Pratt	69	4	40.6	0.40		Opelousas t.	78	25	50.9	1.30	Cohasset	...	...	...	...	...
Rome* ¹ t.	73	17	41.0	0.70		Oxford t.	80	21	49.7	0.91	Concord†	57	— 11	25.4	1.70	8.8
Russell t.	13	...	...	0.28		Paincourtville t.	78	29	52.0	3.80	Dudley†	55*	— 5	25.9	1.62	12.0
Salina†	68	15	39.0	0.27		Plain Dealing t.	75	24	50.0	1.08	East Templeton* ¹	50	— 2	23.6	1.01	6.0
Scott City	67 ^a	78	38.8 ^a	0.30		Rayne t.	80	28	54.7	1.64	Egg Rock, Nahant	51	2	28.8	...	...
Sedan t.	73	18	40.6	0.68		Robeline t.	...	...	...	...	Fallriver	54	— 6	30.8	2.07	13.5
Sharon Springs* ¹	80	16	40.2	0.75		Ruston	76	27	51.3	0.82	Fiskedale	51	3	25.1	1.69	5.0
Topeka	68 ^a	...	...	...	T.	Schriever t.	80	28	52.2	1.59	Fitchburg a* ¹	51	— 1	25.8	1.46	4.5
Ulysses t.	68 ^a	13 ^a	38.1 ^a	0.30		Shellbeach t.	75	33	56.0	2.02	Fitchburg b	55	— 7	27.3	2.17	...
Wallace* ¹	68	5	36.2	0.38		Southern University t.	81	32	53.0	4.00	Framingham	53	— 5	24.9	1.81	8.0
Wamego* ¹	68	16	37.4	0.29		Sugar Ex. Station t.	78 ^a	31	53.4	4.57	Groton	...	...	...	...	...
Wellington* ¹	72	19	43.2	0.63		Sugartown t.	76	29	52.0	1.90	Hingham	...	...	...	2.01	10.5
White Rock	...	...	...	...		Thibodeaux	...	...	...	...	Hobbs Brook	...	...	...	1.97	8.2
Wichita	...	...	...	...		Venice t.	75	38	56.0	3.03	Hyannis* ¹	56	5	34.1	3.00	16.2
Winfield* ⁵	66	14	39.2	0.50		Wallace	77	32	53.0	3.92	Hyde Park* ⁶	58	— 8	25.0		13.0
Winona* ¹	76	18	40.0	0.50		West End	...	...	...	...	Lake Cochituate	58	— 15	27.0	2.15	...
Yates Center	70	9	38.4	0.65		White Sulphur Springs t.	80	26	52.8	2.63	Lawrence	52	4	25.2	1.74	6.8
Kentucky.	...	...	...	...		Eastport	...	...	...	...	Leeds	52	— 12	24.8	1.04	6.5
Alpha t.	70	10	43.2	1.60		Field	42	— 10	19.7	1.17	Leicester Hill	50	— 1	24.8	1.76	7.0
Ashland* ¹	67	7	37.2	...		Bar Harbor	48	— 5	23.8	2.60	Leominster	...	...	...	1.59	5.5
Bardstown t.	65	15	38.2	2.97		Belfast* ⁶	43	— 2	22.1	1.40	Long Plain* ⁶	56	— 14	28.4	3.67	22.0
Blandville t.	68	14	40.2	0.88		Calais t.	54	— 16	22.4	2.39	Mansfield* ¹	53	— 14	26.3	2.76	16.0
Bowling Green a* ¹	67	12	38.3	1.88		Gardiner	45	— 4	21.9	1.52	Middleboro	55	— 10	26.3	2.47	18.5
Bowling Green b†	68	17	40.7	1.70		Kineo t.	37	— 9	16.5	0.90	Milton	54	— 7	25.9		...
Burnside†	...	...	...	1.25		Lewiston	48	— 1	23.1	1.45	Monroe	48	— 6	21.2	1.34	11.0
Caddo†	63	13	37.0	1.56	0.2	Mayfield	40 ^a	— 10	15.6 ^a	1.24	Monson	54	— 11	26.4	1.63	6.0
Canton* ¹ t.	68	16	42.7	2.61		North Berwick	45 ^a	— 5	24.2	2.79	Mount Nonotuck	...	...	...	1.01	4.8
Carlisle	...	...	...	2.90		North Bridgton	42	— 10	21.8	1.67	Mount Wachusett	...	...	...	1.89	6.5
Carrollton t.	64	12	39.4	2.10	T.	Orono	45	— 9	19.5	1.30	Mystic Lake	...	...	...	1.89	6.5
Catlettsburg* ¹	62	15	39.5	1.38	0.5	Petit Menan ¹	48	0	24.2	...	Mystic Station	...	...	...	1.88	9.5
Earlington	67	18	42.6	1.76		Portland	...	...	...	...	Nantucket	...	...	...	1.88	9.5
Edmonton t.	66	13	40.1	1.63		Winslow	43	— 8	21.2	1.29	New Bedford a.	53	— 8	24.8	2.16	9.0
Eubank* ¹	67	7	36.5	1.55		Maryland.	59	16	40.1	0.77	New Bedford b.	53	— 7	29.1	3.61	24.0
Falmouth t.	...	...	...	1.38		Ann Arbor	60	3	31.2	1.27	New Bedford c.	55	— 5	27.0	2.30	11.0
Fords Ferry t.	71	14	41.1	1.55		Bachmans Valley	60	3	31.2	1.27	Pittsfield	49	— 5	24.0	1.41	4.5
Frankfort t.	64	13	39.6	2.93		Baltimore	...	...	...	...	Plymouth* ¹	54	6	30.8	2.95	23.0
Franklin* ¹ t.	65	17	40.6	2.01		Boettcherville	...	...	...	...	Princeton	...	...	...	2.27	8.2
Georgetown	62	10	38.9	...		Charlotte Hall t.	70	14	38.4	0.34	Quinapoxet	...	...	...	3.31	6.5
Greensburg t.	67	16	41.9	1.64		Cherryfields* ²	...	...	...	...	Roberts Dam	...	...	...	1.58	7.5
Henderson t.	67	22	43.5	1.21		Chestertown t.	58	9	33.4	0.86	Salem	57	4	30.0	1.87	12.5
Hopkinsville t.	68	17	41.2	1.32		Collegepark	63	7	33.5	0.38	Somerset* ¹	56	— 1	29.8	3.08	24.2
Leitchfield t.	65	12	38.5	3.06		Cumberland a	61	9	32.1	0.91	South Clinton	...	...	...	2.31	7.8
Lexington a* ¹	62	14	39.1	2.21	T.	Cumberland b	64	10	36.8	0.94	Springfield Armory	53	— 10	25.2	1.37	12.0
Lexington b	...	...	...	...		Darlington t.	63	9	33.0	0.34	Sterling	54	— 9	27.1	2.01	6.5
Louisiana	59	...	...	1.37	T.	Deerpark	57	— 3	30.1	2.55	Taunton b.	54	— 9	27.1	2.83	21.0
Louisville	...	...	...	...		Denton	60	7	34.0	0.83	Taunton c.	53	— 17	25.8	3.30	...
Lyndon	66	14	40.3	2.10		Easton t.	60	12	34.5	0.98	Turners Falls.	48	— 7	23.7	0.82	4.5
Marrowbone†	66	10	38.2	2.12		Ellicott City	65	12	37.8	0.42	Vineyard Haven	...	...	...	1.97	9.5
Maysville t.	65	15	39.4	2.03		Fallston* ¹	60	11	33.2	0.40	Wakefield t.	54	— 3	26.8	1.84	8.0
Middleboro†	64	8	36.6	0.49		Flintstone	...	...	...	...	Waltham	...	...	...	1.24	...
Mount Sterling†	61	8	36.3	1.41		Frederick a.	62	5	34.6	0.59	Webster	54	— 9	26.5	1.83	13.6
Munfordville ^a	68	22	42.6	1.15		Grantsville	60	3	30.2	2.22	Westboro†	54	— 10	26.6	1.63	9.5
Owensboro†	68	15	39.5	1.76		Greatfalls* ⁵	58	10	34.8	...	Weston	54	— 8	26.4	1.30	10.4
Owentou†	62	13	37.8	2.35	T.	Greenspring Furnace	63	7	32.9	0.57	Williamstown* ¹	50	—			

TABLE II.—*Meteorological record of voluntary and other cooperating observers—Continued.*

Stations.	Temperature. (Fahrenheit.)			Precipita- tion.			Stations.	Temperature. (Fahrenheit.)			Precipita- tion.			Stations.	Temperature. (Fahrenheit.)			Precipita- tion.		
	Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.			Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.			Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.	
<i>Michigan—Cont'd.</i>							<i>Michigan—Cont'd.</i>							<i>Mississippi—Cont'd.</i>						
Ball Mountain	53	0	27.6	1.04	7.4	<i>Ins.</i>	Waverly	52	-12	23.3	1.11	6.6	<i>Ins.</i>	Logtown†	76	31	51.6	3.31	<i>Ins.</i>	
Baraga	53	9	23.2	1.05	13.0		Wetmore	43	-8	20.6	2.23	20.0		Louisville†	80	19	49.8	0.37		
Battlecreek	59	6	29.9	0.52	4.4		Ypsilanti	56	-5	23.9	1.19	9.4		Macomb†	76	21	46.5	0.31		
Bay City b	53	3	26.2	0.71	3.5		<i>Minnesota.</i>	39	-35	13.6	0.53	7.0		Magnolia†	79	25	51.5	4.57		
Benton Harbor	58	8	32.2	1.03	6.0		Ada†	50	-4	24.0	0.80	8.0		Mayersville	76	21	51.2	0.75		
Benzonia †	53	6	29.2	1.27	12.8		Albert Lea†	45	-17	17.3	0.55	5.5		Meridian†	78	22	48.3	0.87		
Berlin	55	12	27.1	0.94	7.5		Beardsley†	46	-20	20.1	0.76	2.8		Moss Point	76	30	51.7	2.00		
Berrien Springs	60	5	31.6	1.35	10.0		Belle Plaine†	40	-8	21.0	.....	.....		Natchez†	80	26	52.1	2.35	
Big Rapids	48	8	26.3	1.22	8.0		Bermidji	32	-24	17.2	.....	.....		Okolona†	72	19	44.9	1.06	
Birmingham	54	0	28.5	0.93	6.3		Bird Island	43	-10	21.1	0.25	2.5		Palo Alto†	74	24	47.6	0.89		
Boon	53	0	24.6	1.21	10.9		Blooming Prairie†	47	-5	24.6	1.62	11.2		Pontotoc	81	22	49.5	1.01		
Bronson	58	7	30.2	0.46	4.0		Caledonia†	46	-3	25.9	0.56	5.2		Poplarville	77	22	50.0	4.35		
Calumet	46	2	24.2	1.40	16.8		Cambridge†	46	.....	0.64	6.2	.....		Port Gibson†	78	22	49.2	1.32	
Camden	51	5	27.8	1.25	10.5		Camden	47	-9	25.0	0.10	0.5		Rosedale†	74	18	45.3	0.20		
Carsonville	53	8	26.8	0.72	7.0		Collegeville	47	-12	22.4	0.36	3.4		Stoneington†	76	26	52.0	.....	
Charlevoix	48	9	29.0	1.20	12.0		Crookston†	39	-32	12.6	.....	.....		Thornton†	78	28	51.5	1.00	
Cheboygan	45	3	25.6	0.95	7.0		Dawson†	49	-13	21.0	T.	T.		Topton†	74	28	52.0	1.35		
Clinton	60	-13	27.3	1.30	11.5		Detroit City	44	-40	14.6	0.30	.....		Water Valley††	73	19	45.6	0.31	
Detroit	44	7	23.7	1.05	12.0		Duluth	.....	.....	.....	.....	.....		Waynesboro a	75	21	45.7	1.60	
Escanaba†	44	7	23.7	1.05	12.0		Farmington†	44	-13	20.6	1.40	10.5		Woodville†	75	27	51.8	2.93		
Fairview	54	5	26.7	0.91	5.2		Fergus Falls†	40	-25	17.4	0.75	7.5		Yazoo City†	78	30	47.9	0.62		
Fitchburg	46	-16	26.6	1.36	13.5		Glencoe†	45	-10	22.8	0.32	.....		<i>Missouri.</i>					
Flint	58	-20	26.3	0.51	7.7		Glenwood†	43	-13	18.4	0.44	3.5		Akron	.....	.....	.....	.....	.....
Gaylord	49	-5	22.3	0.64	6.5		Grand Meadow†	47	-2	24.4	0.57	3.7		Appleton City	69	11	40.0	0.55	T.	
Gladwin	50	7	25.8	1.00	10.0		Grand Portage	40	-15	16.9	0.87	T.		Arthur†‡	65	22	37.8	1.02	T.	
Grand Haven	.....	.....	.....	.....	9.4		Granite Falls	44	-9	22.4	0.39	T.		Avalon	65	10 ^d	35.9 ^d	1.00	T.
Grand Rapids b	58	4	30.6	1.34	8.0		Lakeside†	46	-10	21.8	0.62	3.7		Bethany	63	18	39.2	0.71	T.	
Grape	60	-6	29.3	1.17	12.2		Lake Winnibigoshish *†	43	-38	16.6	0.79	7.7		Birchtree	73	8	39.9	0.57		
Grayling	48	-5	23.8	1.08	10.0		Leech Lake†	42	-34	10.3	1.25	10.0		Bolckow†	.....	.....	.....	.....	.....
Hanover	60	-18	23.3	1.33	9.5		Leech Lake†	46	.....	0.50	5.0			Bonneville†	.....	.....	.....	.....	.....
Harrison	53	4	24.6	0.98	7.7		Lawrence†	46	.....	0.50	5.0			Brunswick	66	4	35.4	1.09	
Harrisville	48	3	26.6	0.85	7.0		Leavenworth†	52*	-10	23.7	0.90	8.0		Carrollton	67	14	38.6	1.15		
Hart	58	0	30.4	1.56	10.7		Milan†	44	-17	19.1	0.79	5.5		Cedargap *†	71	14	40.0	0.71		
Hastings	55	7	29.8	0.85	5.8		Minneapolis a†	44	-12	22.4	0.83	4.7		Columbia	.....	.....	.....	.....	.....
Hayes	45	9	27.8	0.46	8.0		Minneapolis b†	46*	-10	23.3	0.75	4.8		Conception	63	12	37.4	0.61	T.	
Hesperia	52	4	27.2	1.91	8.9		New Ulm†	49	-4	24.8	0.37	2.0		Cowgill *†	68	10	36.1	0.86	T.	
Holland *a	48	13	33.4	.....	.....		Montevideo†	45	-13	21.4	1.00	7.9		Darksville†	64	8	36.2	1.00	
Howell	57	-14	26.8	0.87	6.5		Mapleplain†	45	-13	21.4	1.00	7.9		Downing	.....	.....	.....	.....	0.5
Humboldt	48	13	17.8	1.78	3.0		Mazeppa ¹	52*	-10	23.7	0.90	8.0		East Lynne *†	66	16	37.1	1.19	T.	
Ionia	58	-14	28.6	0.80	7.3		Milan†	44	-17	19.1	0.79	5.5		Edgehill *†	62	10	36.0	0.58		
Iron River	44	15	17.8	1.03	9.8		Minneapolis a†	44	-12	22.4	0.83	4.7		Eightmile *†	66	10	39.0	1.17	0.2	
Ivan	49	4	24.8	0.87	5.8		Minneapolis b†	46*	-10	23.3	0.75	4.8		Elmira	78	6	37.9	0.90	T.	
Jeddo	53	-1	26.7	1.34	12.2		New Ulm†	47	0	27.5	0.63	5.0		Emma *†	10	36.8	1.10			
Kalamazoo	58	4	29.8	0.87	4.5		Montevideo†	47	-13	21.7	0.48	0.2		Farmersville	.....	.....	.....	.....	.....
Lansing	59	-7	27.7	0.72	9.0		Moorehead	.....	.....	.....	.....	.....		Fayette	71	11	37.4	1.29	0.2
Lapeer	57	-7	29.6	0.58	3.0		Morris	43	-15	19.2	0.24	1.1		Fulton	.....	.....	.....	.....	.....
Lathrop	46	-12	20.6	2.00	20.0		Mount Iron	46	-32	15.8	1.70	17.0		Gallatin *†	63	12	38.0	0.92		
Lewiston	47	-4	24.4	0.69	.....		New London	40	-12	18.0	0.05	T.		Glasgow	70	12	38.6	1.07	
Ludington	49	7	29.8	0.86	3.2		New Richland *†	48	-4	24.3	.....	.....		Gordonville *†	15	15	35.4	1.19	
Luzerne	51	1	23.1	0.88	0.8		New Ulm†	49	-4	24.8	0.37	2.0		Gorin *†	73	12	34.8	1.04		
Mackinaw City	49	3	26.8	0.36	5.0		Park Rapids†	40	-40	15.4	0.71	7.1		Grovedale	68	5	39.9	0.98		
Madison	56	-14	27.9	1.48	12.4		Pine River *†	49	-35	16.7	0.58	7.3		Halfway	68	12	40.8	1.00	T.	
Mancelona	51	0	25.0	1.74	15.0		Pleasant Mounds†	49	-4	24.8	0.86	2.0		Hannibal	.....	.....	.....	.....	0.2
Manistee	52	6	29.3	0.76	7.0		Pokegama Falls†	46*	-51	13.6	1.04	11.2		Harrisonville†	64	5	37.4	0.75	T.	
Manistique	43	-1	24.9	1.04	11.5		Reeds†	.....	.....	.....	.....	.....		Hermann†	.....	.....	.....	.....	0.97
Marquette	.....	.....	.....	.....	14.4		Rolling Green	45	-4	24.0	1.10	6.0		Houston	71	10	41.2	0.70	
Mayville	57	-3	27.6	1.09	9.5		Roseau	40	-36	11.9	0.68	3.8		Houstonia	.....	.....	.....	.....	1.0
Middle Island * ¹⁰	43	11	29.4	.....	.....		St. Charles†	49	-4	24.7	0.85	6.5		Irenia	.....	.....	.....	.....
Midland	56	2	26.6	0.67	2.0		St. Cloud	40	-10	30.0	T.	T.		Ironon†	73	7	38.2	0.46	T.	
Mottville	59	-12	29.4	0.52	4.0		St. Olaf	43	-20	18.4	0.55	7.8		Jefferson City†	70	18	39.9	1.20		
Mount Clemens	43	-2	25.4	0.97	5.0		St. Peter	.....	.....	.....	.....	.....		Kansas City	.....	.....	.....	.....	.....
Mount Pleasant b	55	-6	26.8	0.67	6.1		Sandy Lake Dam ¹	45*	-41	16.7	0.83	7.8		Kidder	66	11	37.0	0.89	0.3	
Muskegon	50	10	30.6	0.64	4.0		Shakopee ⁶	42*	-9	24.5	.....	5.0		Lamar†	67	15	40.0	1.40	
Newberry	44	-5	21.6	0.95	4.5		Tower†	45	-47	13.8	0.60	6.0		Lamonte	.....	.....	.....	.....	1.36
North Marshall	57	-13	28.2	0.77	3.0		Two Harbors†	47	-14	23.2	1.17	10.2		Lebanon	73	14	42.2	1.15		
Northport	49	13	29.7	1.25	12.5		Willmar†	47	-5	25.2	0.92	8.5		Lexington†	65	11	39.2	1.09		
Old Mission	47	7	28.6	1.10	11.0		40	-12	20.2	0.45	2.3		Liberty	67	12	38.6	0.72			
Olivet	57	-5	29.1	0.78	9.2		47	0	26.9	0.53	3.7		McCune *†	63	10	38.3	0.73	0.5		
Ovid	55	-10	27.9	0.92	7.0		44	-8	24.2	0.12	1.2		Mansfield	.....					

TABLE II.—*Meteorological record of voluntary and other cooperating observers—Continued.*

Stations.	Temperature. (Fahrenheit.)			Precipita- tion.		Stations.	Temperature. (Fahrenheit.)			Precipita- tion.		Stations.	Temperature. (Fahrenheit.)			Precipita- tion.	
	Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.		Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.		Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.
Missouri—Cont'd.						Nebraska—Cont'd.						Nebraska—Cont'd.					
Potosi	◦	◦	◦	Ins.	Ins.	Curtis a	◦	70	8	38.4	0.52	Wilkserville* ¹	◦	60	8	34.4	0.00
Princeton* ¹	64	12	36.1	0.78	T.	Curtis b †	◦	—	—	0.50	—	Wisner	◦	—	—	0.40	—
Rhinelander	67	12	39.2	0.97	—	David City* ¹	55	7	34.3	0.25	T.	Woodlawn	◦	—	—	0.35	—
Richmond	65	13	39.0	0.83	T.	Divide	—	—	—	0.22	—	York* ¹	50	12	35.3	0.21	—
Rolla	—	—	—	1.12	—	Dunning	—	—	—	0.24	—	Nevada.					
St. Charles	69	11	38.8	0.47	—	Edgar* ¹	58	10	36.6	T.	T.	Austin	53	15	37.4	0.18	0.5
St. James* ³	—	14	38.9	0.02	—	Ericson* ¹	52	— 4	30.2	0.25	T.	Battle Mountain* ¹	60	14	34.4	0.20	—
St. Joseph†	—	—	—	—	—	Ewing†	—	—	—	1.00	—	Beowawe* ¹	56	10	33.9	0.00	—
St. Louis (V. O.)	68	11	38.0	1.06	T.	Fairbury†	61	15	36.8	0.40	—	Candelaria	73	20	43.4	0.50	5.0
St. Louis (W. B.)	—	13	38.4	0.75	—	Fairmont* ¹	58	11	37.3	0.20	T.	Carlin* ¹	56	4	29.6	0.50	5.0
Sarcocile* ³	62	—	—	1.00	—	Filley	—	—	—	0.45	—	Carson City	63	15	58.0	0.70	1.9
Shelbina	72	12	43.2	0.45	—	Fort Robinson	63	— 1	36.3	0.00	—	Carson City (W. B.)	—	—	—	—	1.6
Sikeston	—	—	—	—	—	Franklin†	65	10	36.6	0.00	—	Cloverdale* ¹	64	20	35.1	0.05	0.2
Springfield	—	—	—	—	—	Fremont†	52	12	33.5	0.41	—	Clover Valley	—	—	—	—	8.0
Steenville	—	—	—	—	—	Geneva†	69	10	37.2	0.19	—	Crane's Ranch	—	—	—	—	3.5
Stelladale†	71	10	39.4	1.58	T.	Genoa	57	10	34.2	0.27	0.5	Darrough Ranch	—	—	—	—	—
Sublett	63	12	35.0	1.50	0.5	Gering†	65 ^c	10 ^c	36.0 ^c	T.	Downeyville	69	19	44.0	0.30	1.0	
Trenton	62	—	35.8	1.00	—	Gibbon	—	—	—	0.50	—	Duckwater	56	8	31.2	T.	T.
Unionville†	59	9	32.8	0.70	0.7	Gothenburg	61	7	34.9	T.	Elko* ²	55	10	36.3	0.45	2.5	
Virgil City	—	—	—	—	Grand Island b	59	8	35.1	0.14	T.	Elko (near)	50	4	26.4	T.	T.	
Warrenburg* ¹	70	20	42.3	0.98	T.	Greeley	52	— 6	31.3	0.15	T.	Ely	56	4	30.6	0.23	2.3
Warrenton	69	11	37.7	0.90	—	Haigner†	62	10	34.7	0.52	—	Empire Ranch	56	40	33.9	0.10	2.8
Wheatland	—	—	—	—	Hartington†	51	— 10	38.6	0.23	1.0	Fenelon* ¹	54	15	30.6	0.55	5.5	
Willow Springs	77	9	41.9	0.87	—	Harvard* ¹	58	10	34.2	0.06	T.	Goleonda* ¹	54	18	32.4	0.10	—
Zeltonia* ¹	71	10	41.2	0.62	—	Hastings* ¹	56	10	35.3	T.	Halleck* ¹	55	5	29.5	0.22	1.0	
Montana.						Hayes Center	—	—	—	0.30	1.0	Hawthorne a* ⁸	60	26	40.9	0.09	—
Agricultural College	51	22	35.0	0.39	3.6	Hebron†	58	12	37.0	0.20	T.	Hawthorne b	64	20	41.0	9.09	—
Augusta†	63	5	38.2	0.10	1.0	Hickman	—	—	—	0.45	—	Humboldt* ¹	53	17	35.6	T.	T.
Bigtimber†	64	15	40.7	0.08	0.8	Holdrege* ¹	62	8	35.2	T.	T.	Lewers Ranch	64	19	39.8	2.11	5.5
Billings†	75	— 5	44.0	0.22	2.2	Imperial a†	64	7	36.6	0.35	—	Los Vegas	60	25	42.8	0.38	—
Boulder	50	15	31.6	T.	Indianola* ¹	65 ^c	8 ^c	32.2 ^c	T.	Midas	57	18	39.7	0.47	4.8		
Bozeman†	50	19	33.6	0.40	4.0	Kearney	—	—	—	0.5	—	Mill City* ¹	60	18	36.7	0.02	0.3
Butte†	52	12	32.3	0.37	3.7	Kennedy	67	— 2	33.0	0.30	—	Osceola	64	18	40.2	0.06	2.0
Chinook†	60	— 19	31.0	0.30	3.0	Kimball†	63	15	38.0	0.00	T.	Palisade* ¹	56	13	33.2	0.27	2.8
Choteau†	53 ^d	— 104	35.2 ^d	0.05	0.5	Kirkwood* ¹	55	3	29.0	0.08	—	Palmetto	61	3	35.8	1.20	—
Cokedale†	58	18	36.3	0.10	1.0	Lexington†	67	5	35.6	0.20	—	Reese River	62	20	39.7	T.	0.9
Deer Lodge	60	12	33.0	0.22	—	Lincoln b†	59	8	36.6	0.29	0.3	Reno State University	60	15	37.3	0.31	0.1
Fort Custer†	58	— 10	33.4	0.00	—	Lodgepole†	64	7	34.2	T.	Ruby Valley	—	—	—	0.48	5.9	
Fort Keogh†	55	— 14	29.2	0.50	T.	Loup a* ¹	60	8	33.3	0.08	T.	St. Clair	59	14	35.9	0.00	—
Fort Logan†	62	— 20	31.7	—	Loup b* ¹	60	8	33.7	T.	St. Thomas	66	20	43.0	6.30	—		
Fort Missoula	59	5	31.3	0.50	3.8	Lynch* ¹	55	6	30.8	0.05	T.	San Antonio	—	8	—	0.06	—
Glasgow†	47	— 24	20.4	T.	Lyons	—	—	—	0.24	—	Sodaville	68	13	40.6	0.20	—	
Glendive†	47	— 20	25.6	0.30	3.0	McCook* ¹	63	8	35.2	T.	Stoifel	46	— 10	26.8	1.01	10.5	
Greatfalls†	57	— 3	37.4	0.15	1.4	Madison* ¹	59	10	31.0	0.16	0.5	Tecoma* ¹	50	13	28.6	0.10	1.0
Harlem	58	— 15	33.6	—	Madrid* ⁵	65	— 2	35.2	0.40	—	Toano* ¹	54	12	31.6	0.55	5.5	
Harve	—	—	—	—	Marquette	—	—	—	0.12	—	Tybo	53	11	33.2	0.24	3.0	
Helena	64	— 6	38.0	0.21	0.5	Millford	—	—	—	0.52	—	Verdi* ¹	60	17	38.3	1.60	2.0
Hogan†	64	— 5	32.3	0.54	2.0	Minden a†	60	6	34.7	0.09	0.1	Wadsworth* ¹	62	10	33.9	0.05	0.5
Kalispell	56	— 5	32.3	0.54	2.0	Minden b	60	6	34.7	0.11	—	Wells	46	9	31.5	0.30	0.5
Kipp†	54	— 13	31.8	0.37	2.6	Nebraska City b* ¹	61	15	37.0	0.55	—	Winnebucca	—	—	—	—	T.
Lewistown†	54	16	36.9	T.	Nemaha* ¹	64	14	32.6	0.55	—	New Hampshire.						
Libby†	63	7	32.8	3.02	16.0	Nesbitt	60	— 3	34.4	0.80	3.0	Alstead* ⁶	40	— 6	20.9	0.88	1.5
Livingston†	63	20	38.2	T.	Norfolk†	58	— 3	31.2	0.15	—	Berlin Mills	46	— 20	14.0	—	—	
Manhattan†	50	9	30.2	0.11	1.0	North Loup†	57	5	33.4	T.	Bethlehem	44	— 12	17.0	0.98	6.0	
Martinsdale†	48	2	33.8	0.10	1.0	Oakdale†	55	3	30.7	0.07	0.3	Brookline* ¹	52	— 16	25.9	1.78	7.0
Marysville†	49	12	38.4	0.55	4.5	Redcloud a* ¹	54	10	34.4	0.00	—	Concord	49	— 6	23.8	0.96	1.0
Miles City	52	— 24	20.6	T.	Republican* ¹	60	8	35.7	T.	Durham	53	— 4	26.0	1.76	3.5		
Poplart	52	— 8	21.8	—	Rulo* ¹	64	15	35.0	0.90	T.	Grafton†	48	— 7	21.0	0.81	2.0	
Radersburg	50	— 8	21.8	—	Sainte Agency†	55	5	31.2	0.05	0.8	Hanover	45	— 5	21.0	0.71	2.0	
St. Ignatius Mission† ⁶	59	19	36.5	0.94	Schuyler	—	—	—	0.25	—	Keene	49	— 0	22.6	0.81	2.0	
St. Pauls†	55	— 10	33.4	T.	Seneca* ¹	68	0	36.8	0.24	—	Lancaster	42	— 19	15.8	1.20	10.3	
Sun River	—	—	—	T.	Seward* ⁶	56	10	37.0	0.47	—	Nashua	54	— 11	24.2	1.87	9.0	
Troy	56	11	32.1	3.49	T.	Stanton* ¹	51	8	30.9	0.16	0.2	Newton†	54	— 2	24.9	1.48	3.0
Utica†	56	— 15	36.2	0.00	T.	State Farm	59	10	34.0	0.31	—	North Conway	48	— 12	21.0	1.90	10.0
Virginia City†	48	16	32.4	0.25	2.5	Strang* ¹	60	10	37.5	0.18	T.	Peterboro	49	— 12	23.3	1.33	4.6
Wibaux†																	

TABLE II.—*Meteorological record of voluntary and other cooperating observers—Continued.*

Stations.	Temperature. (Fahrenheit.)			Precipita- tion.		Stations.	Temperature. (Fahrenheit.)			Precipita- tion.		Stations.	Temperature. (Fahrenheit.)			Precipita- tion.	
	Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.		Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.		Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.
New Jersey—Cont'd.						New York—Cont'd.						North Carolina—Cont'd.					
Franklin Furnace.	0	0	0	In 8	In 8.	Catskill.	49	-9	26.6	1.35	6.5	Littleton†.	0	0	0	In 8.	In 8.
Freedhold.	54	-8	26.8	1.31	8.0	Charlotte. ¹⁰	50	8	26.2	.....	.....	Louisburg†.	65	7	38.8	3.76	10.0
Friesburg.	59	2	31.4	0.93	10.0	Cherry Creek.	.....	.....	.....	2.97	.....	Lynn. ¹²	69	9	37.4	2.91	9.0
Gillette.	57	-11	27.9	2.04	15.0	Cooperstown†.	53	-7	24.0	1.21	3.5	Marion.	71	15	42.1	1.85	2.5
Hammonton.	57	1	16.5	1.65	12.5	Cortland.	56	-9	26.2	2.32	.....	Mocksville.	71	15	42.2	1.84	7.0
Hanover.	53	-9	28.8	1.40	10.5	De Kalb Junction.	.....	.....	.....	0.91	.....	Moncure†.	66	10	39.6	1.68	9.0
Hightstown.	57	1	31.0	1.60	14.0	Demster.	.....	.....	.....	3.32	.....	Monroe†.	65	3	41.5	2.37	12.0
Imlaytown.	58	4	31.4	1.60	13.8	Eagle Mills.	.....	.....	.....	0.35	.....	Morganton† ¹¹	65	16	36.6	.....	.....
Junction.	57	1	1.05	5.5	.....	Easton.	.....	.....	.....	1.20	.....	Mountairy†.	64	11	37.4	1.22	1.0
Lambertville.	56	-3	30.8	1.53	12.0	Elmira†.	60	-1	30.0	0.61	.....	Mount Pleasant.	66	5	40.0	1.52	9.0
Moorestown.	64	3	32.0	1.25	12.5	Fleming.	59	0	27.4	0.40	4.0	Murphy†.	.....	.....	.....	1.16	.....
Newark <i>a</i> .	56	2	31.7	1.67	18.0	Fort Niagara†.	56	10	31.0	0.56	1.0	Newbern†.	72	24	48.5	4.29	4.0
Newark <i>b</i> †.	57	3	31.7	1.72	16.8	Franklinville.	52	-11	26.6	1.61	9.3	Oakridge†.	66	12	38.9	1.67	4.0
New Brunswick <i>a</i> .	58	-4	51.7	1.67	12.5	Friendship.	56	-7	27.4	1.40	5.9	Pantego.	.....	.....	.....	4.20	.....
New Brunswick <i>b</i> .	57	-4	30.4	1.65	12.6	Fulton.	.....	.....	.....	2.29	.....	Pittsboro†.	68	10	37.9	1.94	8.0
Newton.	55	-4	28.3	1.24	5.5	Glens Falls.	46	-6	23.4	1.29	1.5	Raleigh (W. B.).	.....	.....	.....	7.5	.....
Ocean City.	60	10	35.5	1.55	6.6	Gloversville.	54	-9	23.3	1.07	7.1	Rockingham†.	67	11	41.7	2.29	8.0
Oceanic.	59	10	34.5	1.87	15.8	Haskinsville.	.....	.....	.....	0.99	.....	Roxboro†.	65	7	38.2	2.01	6.0
Paterson.	58	4	32.7	1.48	13.0	Honeymead Brook.	49	-11	24.2	1.47	5.7	Salem†.	71	7	38.8	1.72	6.0
Perth Amboy.	57	3	31.0	1.80	11.0	Humphrey†.	56	-4	28.2	1.62	10.8	Salisbury†.	68	12	40.9	1.50	7.0
Plainfield.	59	-1	30.7	1.44	15.1	Ithaca.	58	-3	27.7	1.00	3.6	Saxontown.	66	8	37.4	0.58	3.0
Rancocas.	.....	.....	1.51	13.0	Jamestown.	54*	0	26.6	2.63	18.0	Selma.	65	15	40.0	4.75	11.0	
Readington ¹⁶ .	60	2	36.1	1.51	8.0	Kings Station.	.....	.....	.....	1.17	.....	Settle.	70	12	38.2	2.08	4.8
Rivervale.	54	-15	27.8	3.70	22.0	Lake George.	48	-4	23.8	1.06	1.5	Skyuka.	68	18	44.6	0.60	0.1
Sergeantsville ¹¹ .	54	3	30.8	1.38	10.0	Lebanon Springs.	48	-11	23.6	0.91	7.5	Sloan†.	66	15	43.4	4.53	0.2
Somerville.	53	-14	28.4	1.02	13.0	Lockport.	54	7	30.3	1.35	4.4	Soapstone Mount†.	74	.....	.....	1.80	10.5
South Orange.	59	0	29.9	1.83	16.0	Lowville.	50	-18	20.2	1.46	14.0	Southern Pines <i>a</i> .	68	14	43.8	2.98	10.0
Staffordville.	.....	.....	0.94	8.0	Lyons.	55	4	29.0	1.64	7.5	Southern Pines <i>b</i> .	68	15	42.2	2.45	11.0	
Toms River.	61	0	30.3	0.93	8.0	Madison Barracks†.	50	-10	23.2	1.61	4.8	Southport†.	67	19	46.3	4.14	4.0
Trenton.	59	6	36.9	1.73	12.0	Manhattan Beach†.	54	6	30.6	1.46	12.0	Springhope ¹¹ .	61	4	36.9	3.30	12.0
Vineyard.	60	-5	30.9	0.88	8.0	Mohonk Lake.	51	0	27.2	1.90	9.5	Tarboro.	67	6	39.8	4.36	8.0
Woodbine.	61	3	30.0	1.18	8.0	Mount Morris.	.....	.....	.....	1.50	8.0	Wash Woods†.	.....	.....	.....	2.95	2.0
New Mexico.	.....	.....	.....	.....	Mount Newark Valley.	.....	.....	.....	1.22	.....	Waynesville†.	63	8	37.7	0.73	.....
Albert†.	67	22	42.1	3.25	.....	New Lisbon.	65	-15	23.0	0.95	8.0	Weldon†.	68	8	38.3	3.91	9.0
Albuquerque†.	53	18	37.1	0.88	.....	New York.	.....	.....	.....	12.6	.....	Willeyton.	63	11	39.1	3.40	8.0
Aztec†.	55	10	31.5	0.66	T.	Niagara Falls.	.....	.....	.....	1.09	.....	North Dakota.	.....	.....	.....	.....	.....
Bernalillo†.	58	.....	0.21	.....	North Hammond†.	50	-8	22.8	1.02	4.7	Amenia.	37	-31	13.4	0.35	3.0	
Bluewater†.	57	4	29.7	0.30	3.0	North Lake.	44	-20	18.4	2.70	16.0	Bismarck.	.....	.....	.....	0.2	.....
Buckman.	50	1	23.6	0.63	8.5	Number Four†.	46	-15	18.5	2.59	17.4	Buxton.	36	-28	13.6	0.56	.....
Chama†.	67	4	32.8	1.80	18.0	Ogdensburg.	50	-12	22.9	1.06	9.3	Church's Ferry.	40	-28	13.2	0.70	6.5
Clayton.	50	20	45.5	2.20	.....	Oneonta.	55	-5	28.5	0.96	.....	Coalharbor†.	42	-23	17.2	0.94	9.4
Deming ¹⁸ .	70	22	48.6	0.00	.....	Oswego.	.....	.....	.....	19.6	.....	Dickinson†.	43	-18	21.7	0.15	1.5
East Lasvegas†.	66	16	35.8	0.51	0.8	Oxford.	53	-11	24.0	1.72	6.2	Ellendale.	42	-16	21.4 ¹⁹	0.10	T.
Eddy.	74	22	46.4	0.82	.....	Palermo†.	49	-10	23.6	2.36	11.8	Falconer.	46	-30	18.0	0.06	0.0
Engle†.	62	17	37.6	0.26	.....	Perry City.	54	-8	25.4	1.40	8.0	Farlcon.	41	-33	13.6	0.26	2.6
Espanola†.	55	10	32.9	0.53	5.0	Pine City.	.....	.....	.....	0.88	.....	Formant ¹⁹ .	50	-28	15.2	.....	.....
Estalina Springs.	60	14	.....	0.15	1.3	Pittsford.	55	-3	29.0	2.04	10.0	Fort Yates†.	52	-19	20.6	0.30	3.0
Fort Bayard.	68	12	42.0	0.10	1.0	Plattsburgh Barracks†.	48	-5	19.2	0.87	.....	Gallatin†.	40	-33	14.4	1.22	6.2
Fort Union.	72	11	40.0	0.88	0.8	Port Jervis.	54	-8	27.5	1.14	7.5	Glenullin.	48	-20	26.0	.....	.....
Fort Wingate.	69	5	35.0	0.15	1.5	Potsdam.	49	-12	20.9	0.83	6.0	Grafton†.	39	-30	12.1	0.60	5.0
Galisteo†.	55	9	33.9	0.78	.....	Poughkeepsie.	52	-8	23.2	1.67	6.5	Grand Rapids†.	39	-26	16.6	0.59	3.9
Gallinas Spring†.	67	16	39.2	1.24	.....	Primrose.	54	-9	28.2	1.47	14.0	Hamilton.	40	-33	11.4	1.02	4.3
Gila.	65	15	41.5	0.37	T.	Ridgeway.	.....	.....	.....	0.89	.....	Jamestown†.	44	-30	17.4	0.32	2.7
Hillsboro†.	63	21	41.9	0.03	19.0	Rochester.	.....	.....	.....	13.9	.....	Kelso.	44	-30	13.3	0.30	3.0
Labeled†.	55	0	28.0	2.04	.....	Rome.	50	-10	22.2	2.52	.....	McKinney.	40	-35	13.3	0.30	3.0
Las Cruces†.	70	11	42.7	T.	Romulus.	58	-2	28.6	2.08	5.0	Mayville.	45	-24	16.3	0.35	2.0	
Lordsburg ¹⁸ .	60	24	43.2	0.15	.....	Rose.	.....	.....	.....	2.07	.....	Mederat.	48 ^g	-20 ^g	27.4 ^g	0.00	0.0
Los Lunas†.	60	13	36.1	0.40	.....	St. Johnsville.	48	-10	24.1	1.19	5.5	Milton†.	37	-30	12.0	0.55	5.5
Lower Penasco†.	73	20	44.0	0.40	.....	Saranac Lake.	46	-20	16.1	1.44	14.8	Minto†.	39	-30	18.5 ¹	0.32	3.2
Monero†.	48	1	26.0	1.13	8.0	Setauket†.	56	8	32.8	1.62	11.0	Napoleon†.	37	-30	16.2	0.20	2.0
Ocate†.	63	9	34.9	1.16	9.0	Sherwood.	.....	.....	.....	1.06	.....	New England City†.	52	2	30.6	0.10	1.0
Olio.	55	5	31.6	.....	T.	Skaneateles.	.....	.....	.....	1.44	.....	Oakdale†.	58	-16	27.2	.....	.....
Puerto de Luna†.	70	16	42.2	2.05	2.5	South Canisteo.	56	-5	27.1	1.14	4.2	Portal†.	40	-28	13.2	.....	.....
Raton†.	70	15	40.2	0.25	.....	Southeast Reservoir.	.....	.....	.....	2.03	14.0	Fowler†.	40	-23	16.0	0.25	2.5
Rincon†.	72	20	43.6	0.01	.....	South Kortright†.	52	-11	23.6	1.37	.....	Sheyenne.	42	-28	13.4	1.60	6.0
Roswell†.	74	14	43.8	0.64	.....	Straits Corners.	54	-6	25.0	1.43	6.5	Townert.	40	-30	12.8	0.26	2.6
San Marcial†.	67	16	40.3	T.	Tyrone.	.....	.....	.....	1.08	.....	University†.	42	-27	14.6	0.55	5.5	
Santa Fe.	.....	.....	.....	4.0	Wappingers Falls.	50	-20	25.6	1.93	12.5	Wahpeton†.	38	-11	15.2	0.55	1.5	
Shattucks Ranch†.	73	18	43.0	0.67	T.	Watertown.	51	-10	23.0	1.48	.....	White Earth†.	40	-25	15.2	T.	T.
Socorro†.	58	20	37.6	0.02	.....	Watkins.	.....	.....	.....	1.06	.....	Wildrice ¹² †.	42	-28	14.6	0.54	5.4
Springer†.	64	5	34.3	2.10	4.0	Waverly†.	69	-10	28.6	1.01	5.3	Williston.	45	-31	11.6	.....	.....
Val																	

TABLE II.—*Meteorological record of voluntary and other cooperating observers—Continued.*

Stations.	Temperature. (Fahrenheit.)			Precipita- tion.			Stations.	Temperature. (Fahrenheit.)			Precipita- tion.			Stations.	Temperature. (Fahrenheit.)			Precipita- tion.		
	Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.			Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.			Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.	
<i>Ohio—Cont'd.</i>							<i>Ohio—Cont'd.</i>							<i>Pennsylvania.</i>						
Canton t.	57	8	32.3	3.01	5.8		Sylvania.	59	-11	28.2	1.31	9.0		Altoona.	60	13	36.6	0.89	.....
Carrolton.	55	0	31.8	2.42	7.0		Thurman.	65	8	36.7	0.65	0.0		Aqueduct.	64	3	32.5	0.63	2.5	
Cedarville.							Tiffin t.	56	-4	32.2	2.82	8.0		Bethlehem.					0.70	
Celina.	62	10	37.5	2.01	2.5		Toledo.	58	-4	32.0	2.59	8.5		Blooming Grove.	52	-7	35.4	1.18	8.0	
Cherryfork.	63	5	34.6	1.74	T.		Upper Sandusky.							Brookville t.					1.84	
Cincinnati.							Vanceburg.	63	8	36.4	1.00	0.5		Browers Lock.					0.69	
Circleville.	60	12	36.2	0.44	0.0		Van Wert.	58	-4	31.4	1.94	3.8		Cameron.	67	7	36.8	1.23	4.0	
Clarksville.	59	11	35.6	1.35	0.3		Vermilion.	59	8	31.9	2.25	10.5		Canonsburg.	63	8	31.6	0.70	4.0	
Cleveland a.	54	15	33.2	2.04	8.5		Vickery.	59	-5	32.3	2.02	7.9		Cassandra.	56	8	31.4	1.46	7.0	
Cleveland b.	58	12	32.8	1.35	9.1		Walnut.							Cedarrun.					0.88	
Cleveland (W. B.)							Warren.	54	-4	30.6	3.39	10.0		Centerhall t.	58	6	30.2	1.63	4.5	
Clifton.	58	8	33.7	1.46	0.3		Warsaw.	51	-11	29.6	0.77	5.5		Chambersburg t.	63	2	31.0	0.48	2.0	
Coatlon.	63	10	34.8	1.13	0.5		Wauseon.	59	-12	29.9	1.84	12.1		Coatesville.	64	4	32.0	0.59	4.5	
Colebrook.	59	4	39.0	1.59	6.5		Waverly.	63	11	36.4	1.04	T.		Confluence t.	60	-2	29.6	1.98	7.0	
Columbus.							Waynesville.	56	10	33.5	1.67	0.5		Coopersburg.	65	3	34.2	1.04	5.5	
Dayton a.	58	11	36.2	1.44	0.7		Westerville.	57	2	34.0	2.01	2.0		Davis Island Dam t.					1.72	
Dayton b t.				0.89	T.		Willoughby.							Derry Station.	60	7	32.4	1.53	5.0	
Defiance.	56	-9	30.0	1.64	8.6		Wooster a.	56	1	30.8	3.04	9.2		Doylestown.					1.07	
Delaware t.	57	-1	33.6	2.12	5.0		Youngstown.	53	5	28.4	2.38	6.0		Driftwood.					0.91	
Demos.	57	6	32.4	1.64	0.5		Oklahoma.							Dubois.					1.98	
Dupont.	56	8	32.1	1.83	10.0		Alva t.	75	12	43.6	1.25			Duncannon.					0.65	
Elyria.	54	5	31.3	2.37	3.9		Anadarko t.	78	11	43.5	1.30			Byberry t.	56	-13	25.0	0.91	7.0	
Fairport Harbor *10.	60	16	34.4				Arapaho t.	74	12	42.8	2.85			East Bloomsburg.					0.61	
Fayetteville.	57	12	35.2	1.18	0.6		Beaver t.	64	13	35.6	0.93			East Mauch Chunk.	63	-5	29.1	1.21	4.5	
Findlay.	60	-4	30.6	2.55	0.7		Burnett t.	78	9	48.8	1.11			Easton.	51	0	30.1	0.49	5.0	
Fostoria.	57	-7	30.4	3.11	8.0		Clifton t.	72	9	41.2	0.71			Edinboro *1.	48	10	28.3	0.80	5.0	
Frankfort.	60	12	35.0	0.43	T.		Edmond.	70	20	44.1	1.09			Ellwood Junction t.					1.83	
Garretttsville t.	56	-2	30.3	2.31	7.1		Fort Reno t.	87	13	44.3	1.30			Emporium.	56	-1	29.4	1.82	7.2	
Granville.	58	3	32.2	2.73	4.0		Fort Sill.	76	16	45.3	2.75			Erie.					8.9	
Gratiot.	59	4	33.3	1.18	2.1		Guthrie t.	65	17	41.2	1.30			Farrandsville.					1.23	
Greenfield.	58*	13*	36.0	0.74	T.		Hennessey t.	77						Forks of Neshaminy *1.	52	2	30.3	1.12	10.0	
Greenhill.	57	-4	29.6	2.42	7.1		Keokuk Falls.	74	14	44.4	0.90			Frederick.					0.56	
Greenville.	55	9	32.8	1.82	0.2		Mangum t.	83	13	48.0	3.55			Freeport t.					1.84	
Hackney.							Normant.	74	15	44.9	1.31			Gettysburg.	62	4	32.0	0.60	3.5	
Hanging Rock.	64	7	36.6	1.00	T.		Pondcreek t.	81	12	46.0	0.48			Girardville.					1.20	
Hedges.	60	-14	30.2	3.00	11.8		Prudencet.	76	12	44.0	1.69			Gripland.	54	0	28.5	1.82	9.0	
Hillhouse.	58	8	29.6	1.97	16.0		Sac and Fox Agency t.	76	10	44.3	0.70			Greensboro t.	61	-5	32.1	1.40	2.0	
Hillsboro t.	63	10	35.8	1.09	T.		Stillwater t.	74	13	43.4	0.85			Hallstead t.	58	-7	27.0	0.99	8.2	
Hiram.	54	10	30.0	2.43	8.0		Winnifield t.	73	15	44.4	1.26			Hamburg.	56	1	32.0	0.97	5.0	
Hudson.	56	5	30.5	1.82			Oregon.							Harrisburg.					2.7	
Jacksonboro.	60	11	35.2	1.35			Arlington *3.	53	13	37.7	1.44			Hilliardsburg.	63	-3	30.6	1.31	5.0	
Kenton t.	60	-3	32.6	2.19	0.9		Ashland b.	61	23	42.0	3.49			Huntingdon a t.	64	3	31.2	0.77	3.5	
Killbuck.	55	3	31.1	3.12	9.0		Aurora **.	62	34	48.8	9.40			Huntingdon b.					0.76	
Lancaster.	58	12	33.8	1.05	T.		Aurora (near).	60	30	43.2	8.43			Indiana J.	67	9	38.0	0.90	.....
Leipsic.	62	-3	28.8	2.55	8.5		Baker City.							Irwin.	67	12	37.0	1.76	5.0	
Levering.							Bandon.	61	32	50.2	6.69			Johnstown t.	58	5	32.1	2.04	8.0	
Logan.	65	7	33.2	0.84	0.2		Bay City t.	66	29	47.7	12.71			Karthaus.					1.10	
Lordstown.	56	7	30.2	3.00	7.5		Brownsville *8.	60	32	46.8	4.88			Keating.					1.06	
McArthur.	58	9	34.6	0.99	T.		Burns t.	49	8	29.6	0.60			Kennett Square.	61	9	32.5	0.56	5.0	
McConnellsburg t.	65	7	34.9	1.13	2.5		Cascade Locks.	48	18	39.8	14.85			Lansdale.					0.75	
Marietta a t.							Comstock *8.	60	32	45.5	9.29			Lawrenceville.	54	-5	27.6	4.00	4.0	
Marietta b.	63	10	35.8	1.70	T.		Corvallis a.	61	25	43.4	7.81			Lebanon.	59	5	31.0	0.68	3.1	
Marion.	60	-5	31.8	1.87	7.8		Dayville t.	62	25	44.2	1.52			Leroy.	55	0	25.6	0.79	4.4	
Medina.	56	-1	30.7	2.38	7.0		Eugene t.	61	30	45.2	5.81			Lewisburg.	62	-6	29.6	1.29	4.0	
Milfordton.	56	-2	29.0	2.93	6.0		Falls City.							Lock Haven a t.	62	-2	32.2	1.42	4.0	
Milligan.	63	4	33.4	0.92	2.0		Fife t.	54	15	36.2	0.81			Lock Haven b.					1.02	
Millport.							Forest Grove.	59	26	42.6	10.45			Lock No. 4 t.					1.46	
Montpelier.	57	-13	28.6	1.67	11.0		Fort Klamath.	46	10	32.8	6.22			Lycippus.	61	8	32.3	1.31	4.8	
Napoleon.	56	-11	29.2	2.48	8.5		Gardiner.	61	36	48.7	13.59			Mifflin.					1.05	
Neapolis.							Glenora.	55	20	41.8	30.05			Oil City t.					3.5	
New Alexandria.	57	6	33.2	2.55	6.0		Government Camp.	60	14	36.8	14.77			Ottsville.					2.10	
New Berlin.	55	2	30.2	2.58	6.0		Giant Pass a t.	62	32	42.8	6.88			Parker t.					0.33	
New Bremen.	59	5	32.4	1.51	....		Happy Valley.	55	14	36.8	0.74			Philadelphia b.	62	10	34.4	0.95	8.5
New Comerstown.	56	-4	31.6	1.79	6.5		Irvington.							Philadelphia (W. B.)					3.2	
New Holland.	60	11	34.6	0.68	0.5		Jacksonville.	58	24	40.8	5.28			Pittsburg.					Point Pleasant.	
New Moscow.							Joseph.	50	12	32.0	1.13			Quakertown.	59	-5	29.5	0.79	9.5	
New Paris.	62	9	35.8	1.90	T.		Junction City *8.	70	33	47.0	7.49			Reading ² .					2.25	
New Waterford.							Lafayette *8.	58	31	45.2	7.41			Renovo a.	60	5	29.8	0.40	....
North Lewistown.	59	5	32.4	1.60	1.0		Lakeview t.	47	17	34.1	1.45			Reno b.	60	5	29.8	0.74	3.3	
North Royalton.	55	10	30.9	1.91	7.0		Langlois.	67	36	53.8	16.21			Ridgway t.					3.35	
Norwalk.	63	0	32.2	1.50	6.0		McMinnville t.	58	32	43.6	11.13			Saengerstown.	56	-10	28.8	2.01	10.0	
Oberlin.	50	10	31.7	1.03	5.1		Merlin *8.	68	30	41.7	5.72			St. Marys.	53	0	27.5	1.76	6.5	
Ohio State University.	58	5	33.1	1.80	0.9		Monmouth *8.	60	32	44.9										

TABLE II.—*Meteorological record of voluntary and other cooperating observers—Continued.*

Stations.	Temperature. (Fahrenheit.)			Precipita- tion.		Stations.	Temperature. (Fahrenheit.)			Precipita- tion.		Stations.	Temperature. (Fahrenheit.)			Precipita- tion.	
	Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.		Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.		Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.
<i>Pennsylvania—Cont'd.</i>																	
West Chester.....	58	9	32.6	Ins.	4.8	South Dakota—Cont'd.	o	o	o	Ins.	4.8	Texas—Cont'd.	o	o	o	Ins.	Ins.
West Newton†.....	.....	.....	.....	1.62	4.5	Webster†.....	42	-23	17.0	1.21	4.8	Hallettsville†.....	78	24	54.3	1.20	1.20
White Haven.....	58	8	26.9	0.92	5.5	Wentworth†.....	42	-7	22.6	0.28	1.0	Haskell.....	74	20	45.2	2.60	2.35
Wilkesbarre†.....	57	4	30.4	1.08	4.0	Yankton†.....	55	4	30.4	0.10	.....	Hewitt.....	.....	.....	.....	.....	.....
Williamsport.....	50	4	30.2	0.89	3.5	Tennessee.	.....	.....	.....	.....	.....	Houston†.....	77	30	53.7	5.67	5.67
York†.....	60	3	31.6	0.45	3.3	Andersonville* ¹	65	12	39.1	0.34	.....	Huntsville†.....	75	27	49.8	1.50	1.50
<i>Rhode Island.</i>						Ashwood* ¹	67	20	43.6	1.60	.....	Kent.....	.....	.....	.....	.....	.....
Block Island.....	53	4	30.5	1.39	12.5	Benton (near)†.....	69	14	40.6	0.69	.....	Kerrville†.....	77	18	47.4	1.74	1.74
Bristol.....	53	3	28.2	2.17	13.0	Bluff City†.....	69*	15*	42.0*	1.09	.....	Lampasas†.....	80	15	50.9	1.43	1.43
Kingstone.....	55	3	28.2	2.40	13.5	Bristol†.....	65	8	34.2	1.60	.....	Llano* ¹	74	25	51.6	1.20	1.20
Lonsdale.....	.....	.....	.....	.....	Byrdstown.....	68	12	40.2	1.37	.....	Longview†.....	75	26	50.1	2.55	2.55	
Narragansett Pier.....	56	-5	29.6	2.05	13.0	Cagle* ¹	64	17	39.3	1.16	.....	Luling†.....	80	24	53.6	0.85	0.85
Pawtucket.....	56	3	30.3	2.97	12.0	Carthage†.....	.....	.....	.....	.....	.....	Mann.....	86	19	53.4	1.22	1.22
Providence a.....	54	3	29.3	2.32	11.5	Charleston†.....	.....	.....	.....	.....	.....	Menardville†.....	78	13	48.8	2.46	2.46
Providence c.....	54	3	29.3	2.32	11.5	Charlotte.....	69	18	42.0	0.94	.....	Mount Blanco* ¹	77*	14	43.6	1.05	1.05
<i>South Carolina.</i>						Clarksville.....	.....	.....	.....	.....	.....	New Braunfels†.....	79	24	53.3	1.90	1.90
Anderson†.....	.....	.....	.....	2.48	6.4	Clinton†.....	69	18	42.0	0.94	.....	Orange†.....	72	23	48.4	1.56	1.56
Batesburg†.....	78	21	47.5	1.10	5.0	Decatur†.....	65	14	40.1	0.78	.....	Panter†.....	.....	.....	.....	2.56	2.56
Blackville†.....	70	19	44.1	4.71	5.0	Elizabethton†.....	68	12	37.6	1.56	.....	Paris†.....	80	20	50.7	0.52	0.52
Caunden†.....	.....	.....	.....	4.05	2.0	Elk Valley* ¹	66	14	37.8	0.69	.....	Point Isabel* ¹	76	36	62.0	1.50	1.50
Central†.....	70	15	41.6	0.78	5.5	Fairmount* ¹	60	15	39.1	1.33	.....	Rheinland†.....	76	20	47.8	2.89	2.89
Cheraw a†.....	67	11	39.2	2.13	8.0	Florence†.....	66	17	41.8	1.72	.....	Roby†.....	.....	.....	.....	0.98	0.98
Cheraw b†.....	.....	.....	.....	3.36	9.0	Franklin.....	66	18	41.1	.....	.....	Rocksprings.....	.....	.....	.....	1.28	1.28
Clemson College.....	72	13	41.4	1.59	8.0	Greenville†.....	65	13	37.9	1.41	.....	Runge†.....	86	23	58.5	0.54	0.54
Columbia.....	.....	.....	.....	.....	Harriman.....	63	12	38.7	0.41	.....	San Antonio.....	83	30	56.6	0.77	0.77	
Conway†.....	.....	.....	.....	5.01	.....	Hohenwald†.....	70	11	40.4	2.14	.....	Sanderson†.....	75	23	48.8	0.05	0.05
Darlington (near).....	.....	.....	.....	2.15	2.5	Jackson†.....	60	17	42.2	1.45	.....	San Marcos a†.....	81	22	51.4	2.41	2.41
Edisto†.....	.....	.....	.....	6.42	.....	Johnsonville†.....	66	12	41.8	1.46	.....	San Marcos b†.....	67	13	51.4	2.38	2.38
Effingham†.....	.....	.....	.....	2.80	2.5	Kingston†.....	60	13	35.2	1.20	.....	Sierra Blanca†.....	67	13	47.1	.....	.....
Florence†.....	65	15	41.4	3.17	.....	Liberty†.....	67	15	41.3	1.27	.....	Stafford†.....	76	25	54.4	3.69	3.69
Georgetown†.....	68	22	45.8	4.50	.....	Loudon†.....	.....	.....	.....	.....	.....	Sulphur Springs†.....	80	21	51.1	1.21	1.21
Gillisonville†.....	76	17	46.8	5.98	T.	McKenzie†.....	68	18	42.5	1.20	.....	Temple a.....	76	28	51.2	2.33	2.33
Greenville†.....	73	11	40.4	2.23	10.5	McMinnville†.....	65	15	42.0	2.75	.....	Tulia.....	75	15	43.0	1.93	1.93
Greenwood.....	67	20	42.0	2.89	6.0	Molino†.....	65	16	42.2	2.95	.....	Tyler†.....	72	24	49.1	2.20	2.20
Kingtree a†.....	69	20	42.6	4.21	.....	Nashville.....	.....	.....	.....	.....	.....	Waco†.....	75	23	49.4	2.25	2.25
Kingtree b†.....	.....	.....	.....	4.23	.....	Newport†.....	64	13	38.7	0.94	.....	Weatherford†.....	77	19	40.6	2.42	2.42
Little Mountain.....	73	17	47.1	2.61	4.5	Nunnally* ¹	68	14	42.3	3.89	.....	Wichita Falls†.....	.....	.....	.....	2.54	2.54
Longshore†.....	69	18	43.2	3.24	8.0	Palmetto†.....	70	17	44.9	1.37	.....	<i>Utah.</i>	.....	.....	.....	.....	.....
Mount Carmel†.....	.....	.....	.....	4.63	4.2	Pope* ¹	70	15	41.9	1.55	.....	Alpine City†.....	.....	.....	.....	0.33	0.33
Pinopolis* ¹	65	19	44.8	5.19	.....	Riddleton†.....	65	13	39.8	1.32	.....	Blue Creek* ⁸	55	9	30.1	0.50	0.50
Port Royal†.....	67	28	49.0	3.16	.....	Rockwood†.....	.....	.....	.....	.....	.....	Brigham City†.....	.....	.....	.....	1.41	1.41
St. George†.....	70	20	44.4	6.46	.....	Rogersville†.....	64	13	37.2	0.90	.....	Cisco†.....	54	14	31.0	0.06	0.05
St. Matthews†.....	74	19	44.3	3.38	.....	Ruby†.....	.....	.....	.....	.....	.....	Corinne* ⁸	57	10	31.3	0.90	0.90
St. Stephens†.....	.....	.....	.....	4.82	.....	Southern Plains†.....	68	12	41.0	3.32	.....	Farmington.....	.....	.....	.....	0.42	0.42
Santuck†.....	66	8	40.2	3.03	15.0	Tellico Plains†.....	70	12	41.3	0.81	.....	Fillmore†.....	66	-2	34.4	0.33	0.33
Shaws Fork* ¹	80	21	46.1	2.35	1.5	Tennessee Plains†.....	68	17	41.8	1.11	.....	Fort Duchesne†.....	46	-1	23.4	0.00	0.00
Smiths Mills†.....	.....	.....	.....	5.81	.....	Trenton.....	68	17	41.8	1.11	.....	Giles†.....	50	5	25.8	T.	T.
Society Hill†.....	68	19	42.7	2.11	4.0	Tullahoma†.....	65	14	38.8	2.35	.....	Grover†.....	58	3	30.2	0.15	2.0
Spartanburg†.....	73	18	42.4	1.55	.....	Union City†.....	68	17	41.8	1.24	.....	Heber.....	46	8	28.4	0.75	6.5
Statesburg†.....	68	22	44.7	3.19	1.0	Waynesboro* ¹	73	16	42.5	2.67	.....	Huntsville†.....	51	-3	32.6	1.35	11.0
Trenton.....	66	26	46.3	3.31	2.5	T.	.....	.....	.....	.....	.....	Kelton* ⁸	51	-3	28.2	0.10	1.0
Trial†.....	83	17	46.8	5.54	.....	.....	.....	.....	.....	.....	.....	Koosharem.....	49	-3	31.9	0.36	3.0
Walhalla.....	70	13	41.8	0.55	4.0	.....	.....	.....	.....	.....	.....	Levan†.....	50	9	31.9	0.36	3.0
Wimbsboro.....	70	12	42.9	4.04	5.5	.....	.....	.....	.....	.....	.....	Loa†.....	54	-2	25.9	T.	T.
Yemassee†.....	72	21	45.7	5.91	.....	.....	.....	.....	.....	.....	.....	Logan†.....	44	13	29.1	0.57	0.57
Yorkville.....	70	18	43.9	2.01	10.0	Strawberry Plains†.....	65	10	42.2	3.18	.....	Mammoth†.....	54	17	36.4	T.	T.
<i>South Dakota.</i>						Arthur City†.....	70	29	51.5	0.76	.....	Manti†.....	62	4	33.3	0.30	3.0
Aberdeen†.....	41	-20	15.9	0.50	T.	Austin b* ⁵	74	15	47.0	2.22	.....	Millville†.....	.....	.....	.....	0.81	0.81
Alexandria†.....	45	-6	23.1	T.	T.	Ballinger†.....	74	21	55.4	1.43	.....	Moab†.....	45	15	30.2	0.82	3.2
Armour†.....	50	-5	27.2	0.00	.....	Beeville†.....	84	21	53.4	1.43	.....	Mount Pleasant* ¹	56	12	33.0	0.20	2.0
Ashcroft†.....	58	0	33.5	0.00	.....	Blanco†.....	80	30	53.0	2.00	.....	Ogden a* ⁸	48	20	33.4	0.95	9.5
Brookings.....	41	-10	22.0	0.25	.....	Boerne* ¹	77	26	52.0	2.41	.....	Ogden b* ¹	54	10	35.6	.....	.....
Castilewood†.....	40	-15	19.2	T.	T.	Bowie* ¹	71	23	49.4	2.00	.....	Par City†.....	50	10	33.0	0.90	9.0
Chamberlain†.....	53	0	29.9	0.26	.....	Brady†.....	81	16	49.2	2.04	.....	Parowan†.....	55	16	34.8	0.16	1.6
Cross†.....	64	12	36.2	0.00	.....	Brazoria†.....	79	29	56.7	3.46	.....	Promontory* ⁸	45	12	29.1	0.32	3.2
Edgemont.....	.....	.....	.....	0.03	.....	Brenham†.....	79	27	53.8	1.94	.....	Richfield†.....	56	2	31.2	0.00	0.00
Faulkton a†.....	41	-19	20.2	T.	.....	Brighton†.....	.....	.....	.....	.....	.....	St. George†.....	65	10	38.8	0.30	0.30
Flandreau†.....	49	-7	23.3	0.04	.....	Brownwood* ⁸	70	20	47.9	2.40	.....	Vermont.	.....	.....	.....	5.5	5.5
Forestburg†.....	42	-10	27.7	0.10	T.	Burnet†.....	76	26	51.2	1.07	.....	Bennington.....	54	-7	22.8	1.12	1.0
Forest City†.....	50	-16	23.7	0.00	0.5	Camp Eagle Pass†.....	92	26	55.1	0.57	.....	Burlington†.....	55	-3	23.4	0.83	6.0
Fort Meade†.....	74	-5	41.2	0.06	0.5	Childress†.....	72*	18	45.5	1.54	.....	Chester†.....	48				

TABLE II.—*Meteorological record of voluntary and other cooperating observers*—Continued.

TABLE II.—*Meteorological record of voluntary and other cooperating observers—Continued.*

Stations.	Temperature. (Fahrenheit.)			Precipita- tion.			Stations.	Temperature. (Fahrenheit.)			Precipita- tion.		
	Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.	Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.	Maximum.	Minimum.	Mean.
Mississippi.	o	o	o	Inps.	Inps.	o	o	o	Inps.	Inps.	dino County, Cal., at elevations varying from 4,900 to 6,900 feet.		
Booneville ^h	76	23	58.6	2.47		Brownsville ^{*3}	64	10	41.6		A numeral following the name of a station indicates the hours of observation from which the mean temperature was obtained, thus:		
Enterprise	87	20	56.0	2.52		Happy Valley	65	-31	30.0	2.08	¹ Mean of 7 a. m. + 2 p. m. + 9 p. m. + 9 p. m. + 4.		
Holly Springs	74	21	47.9	6.27		Sparta				10.0	² Mean of 8 a. m. + 8 p. m. + 2.		
Pontotoc	84	14	55.2	3.59		Tillamook Rock L. H.				44.0	³ Mean of 7 a. m. + 7 p. m. + 2.		
Missouri.						Texas.					⁴ Mean of 6 a. m. + 6 p. m. + 2.		
Hastain	76	8	43.6	2.44		Albany ^{*1}	71	25	48.2	0.33	⁵ Mean of 7 a. m. + 2 p. m. + 2 p. m. + 2.		
Warrensburg ^{#1}	77	8	43.7	1.98		Brownwood ^{*1}	81	18	58.6	0.10	⁶ Mean of readings at various hours reduced to true daily mean by special tables.		
Montana.						Iewitt					⁷ Mean from hourly readings of thermograph.		
Agricultural College	59	-21	23.0	2.28		Mann					⁸ Mean of 7 a. m. + 2 p. m. + 9 p. m. + 3.		
Radersburg	65	-32	22.1	0.85		San Antonio	87	32	63.4	1.05	⁹ Mean of sunrise and noon.		
Nebraska.						Tulia	84	6	44.8	0.55	¹⁰ Mean of sunrise, noon, sunset, and midnight.		
Indiana ^{*1}	79	-10	28.2	0.15	T.	Oregon.					The absence of a numeral indicates that the mean temperature has been obtained from daily readings of the maximum and minimum thermometers.		
Nevada.						Brownsville ^{*3}	o	o	o		An italic letter following the name of a station, as "Livingston ^a ," "Livingston ^b ," indicates that two or more observers, as the case may be, are reporting from the same station. A small roman letter following the name of a station, or in figure columns, indicates the number of days missing from the record; for instance, "14" denotes 14 days missing.		
Clover Valley						Happy Valley	64	10	41.6		No note is made of breaks in the continuity of temperature records when the same do not exceed two days. All known breaks, of whatever duration, in the precipitation record receive appropriate notice.		
Empire Ranch	62	-15	33.0	0.10		Sparta	65	-31	30.0	5.09	CORRECTIONS.		
Keyser's Springs				0.17		Tillamook Rock L. H.					Kansas, Sharon Springs, October, 1896, make precipitation read 1.10 instead of 1.00.		
New Mexico.						Texas.					Virginia, Guinea, November, 1896, make precipitation read 3.87 instead of 3.97.		
Bucknams	56	-16	27.6	1.04		Albany ^{*1}	71	25	48.2	0.33	Oregon, Bay City, November, 1896, make precipitation read 17.59 instead of 18.59.		
Clayton	83	2	45.2	0.90		Brownwood ^{*1}	81	18	58.6	0.10	NOTE.—The following changes have been made in the names of stations: Nevada, Knickerbocker Mills, changed to Midas. Washington, Queets, changed to Clearwater.		
Estancia Springs				0.01	0.1	Iewitt							
Fort Bayard	81	14	47.4	T.		Mann							
Fort Wingate	73	0	40.3	0.30		San Antonio	87	32	63.4	1.05			
Winsors Ranch				0.34		Tulia	84	6	44.8	0.55			
Ohio.						Oregon.							
Hedges	72	8	42.3	1.04		Brownsville ^{*3}	o	o	o				
McConnellsville	75	18	49.3	2.16	0.5	Happy Valley	64	10	41.6				
Willoughby						Sparta	65	-31	30.0				
						Tillamook Rock L. H.							

TABLE III.—*Data from Canadian stations for the month of December, 1896.*

Stations.	Pressure.			Temperature.		Precipitation.		Prevailing direction of wind.	Total depth of snow.
	Mean not re- duced.	Mean reduced.	Departure from normal.	Mean.	Departure from normal.	Total.	Departure from normal.		
St. Johns, N. F.	Inches.	Inches.	Inches.	o	o	Inches.	Inches.	n.	56.0
Sydney, C. B. I.	29.67	29.82	+ .02	25.0	- 5.4	7.67	— 2.05	nw.	11.0
Grindstone, G. St. L.	29.90	29.96	+ .08	26.2	- 2.8	2.67			
Halifax, N. S.	29.94	30.08	+ .13	25.8	- 2.7	3.25	- 2.04	w.	6.3
Grand Manan, N. B.	30.00	30.05	+ .06	25.2	- 2.5	2.54	- 2.13	w.	4.5
Yarmouth, N. S.	29.98	30.06	+ .08	28.8	- 2.7	3.49	- 1.78	nw.	10.3
St. Andrews, N. B.				21.0	- 3.0	1.43	- 2.13	nw.	2.0
Charlottet' n, P. E. I.	29.94	29.98	+ .04	23.0	- 0.2	2.19	- 1.81	nw.	5.5
Chatham, N. B.	29.99	30.01	+ .07	12.0	- 4.5	1.42	- 1.55	w.	12.1
Father Point, Que.	30.01	30.04	+ .09	14.2	- 1.8	1.01	- 1.21	w.	10.1
Quebec, Que.	29.76	30.12	+ .11	12.8	- 3.2	2.33	- 3.08	w.	10.4
Montreal, Que.	29.94	30.10	+ .13	16.8	- 2.7	1.12	- 2.44	sw.	10.8
Rockliffe, Ont.	29.60	30.15	+ .12	13.8	- 0.7	0.75	- 1.99	se.	7.1
Kingston, Ont.	29.84	30.18	+ .13	22.8	- 2.2	1.07	- 2.57	ne.	
Toronto, Ont.	29.77	30.17	+ .11	27.0	- 1.0	0.04	- 1.60	sw.	6.0
White River, Ont.	29.71	30.17	+ .12	6.0	- 2.8	0.49	- 0.95	s.	2.9
Port Stanley, Ont.	29.51	30.18	+ .11	27.9	- 1.20	- 1.41	sw.	7.2	
Saugeen, Ont.	29.40	30.15	+ .13	27.1	+ 0.1	2.56	- 1.57	sw.	23.6
Parry Sound, Ont.	29.40	30.14	+ .11	21.3	+ 0.3	3.03	- 0.90	e.	
Port Arthur, Ont.	29.35	30.09	+ .07	15.4	+ 4.9	0.16	- 0.69	w.	1.6
Winnipeg, Man.	29.16	30.05	- .05	11.2	+ 8.2	0.27	- 0.92	s.	1.9
Minnedosa, Man.	28.12	30.04	- .06	12.7	+ 10.2	0.94	+ 0.21	w.	8.0
Qu'Appelle, Assin.	27.68	30.03	- .09	13.0	+ 9.0	0.45	- 0.19	s.	4.5
Medicine Hat, Assin.	27.57	29.96	- .14	26.8	+ 11.8	0.29	- 0.07	s.	2.9
Swift Curr'l, Assin.	27.30	29.99	- .13	23.2	+ 12.2	0.28	- 0.43	w.	17.
Calgary, Alberta.	26.25	29.01	- .21	26.4	+ 11.9	0.30	- 0.42	w.	3.6
Prince Albert, Sask.	28.27	29.90		8.8		0.82		sw.	7.2
Edmonton, Alberta.	27.50	29.95	- .04	19.4	+ 5.7	0.20	- 0.20	sw.	1.4
Battleford, Sask.	28.15	30.01		7.1		0.53		se.	5.1
Kamloops, B. C.	28.72	30.00		34.4		0.81		e.	3.8
Hamilton, Bermuda	29.94	30.10	- .02	64.5		6.40			23.
Banff, Alberta.	25.21	30.00		24.7		1.14			24.
Esquimalt, B. C.	29.89	29.93		42.6		10.41			25.
Ottawa, Ont.	29.82	30.21		16.0		1.25			26.

December, 1896.	Pressure at sea level.			Temperature.		Relative humidity.		Wind.	Cloudiness.	Rain measured at 6 a. m.
	9 a. m.	3 p. m.	9 p. m.	6 a. m.	9 a. m.	9 p. m.	Maximum.			
1	30.05	29.96	30.03	67	o	o	o	w-sw.	0-3	4-10
2	30.06	29.99	30.08	66	73	68	o	n-ne.	0-2	4-10
3	30.12	30.05	30.13	66	73	70	o	n-ne.	1-3	1-0
4	30.16	30.08	30.15	68	69	67	o	ne-ne.	4-6	3-0
5	30.11	30.01	30.10	71	77	73	o	ne-ne.	5-3	1-23
6	30.08	30.00	30.10	72	81	73	o	sw-ne.	1	2
7	30.10	30.01	30.11	70	80	72	o	n-ne.	1-3	2
8	30.13	30.07	30.15	74	80	74	o	ne-ne.	3	0-04
9	30.17	30.10	30.17	72	73	70	o	ne-ne.	4	5
10	30.22	30.14	30.25	73	80	73	o	ne-ne.	4	5
11	30.17	30.10	30.17	73	73	70	o	ne-ne.	4	5
12	30.22	30.14	30.25	72	73	70	o	ne-ne.	4	5
13	30.25	30.10	30.23	72	73	71	o	ne-ne.	4	5
14	30.17	30.11	30.19	73	74	70	o	ne-ne.	4	3
15	30.17	30.06	30.15	71	73	74	o	ne-ne.	4-3	3-0
16	30.12	30.04	30.11	72	73	71	o	ne-ne.	5	4
17	30.12	30.04	30.10	66	77	73	o	ne-ne.	3	0-00
18	30.10	30.03	30.09	67	74	69	o	ne-ne.	2	1-8
19	30.15	30.07	30.15	67	75	75	o	ne-ne.	0-1	5
20	30.15	30.07	30.15	67	75	75	o	ne-ne.	3-6	10-3
21	30.15	30.06	30.11	67	77	78	o	ne-ne.	5	6
22	30.16	30.11	30.16	69	74	71	o	ne-ne.	4	7
23	30.16	30.11	30.16	69	75	76	o	ne-ne.	4	7
24	30.20	30.09	30.17	68	77	73	o	ne-ne.	4	7
25	30.15	30.07	30.15	67	75	75	o	ne-ne.	4	7
26	30.16	30.06	30.11	67	77	78	o	ne-ne.	4	7
27	30.15	30.05	30.11	72	73	79	o	ne-ne.	3	0-03
28	30.13	30.03	30.11	70	80	69	o	ne-ne.	1	4
29	30.11	30.00	30.08	68	77	71	o	ne-ne.	1	3
30	30.01	29.98	29.98	70	73	74</td				

TABLE V.—*Mean temperature for each hour of seventy-fifth meridian time, December, 1896.*

Stations.	Temperature												Midnight.												Mean.	
	1 a. m.	2 a. m.	3 a. m.	4 a. m.	5 a. m.	6 a. m.	7 a. m.	8 a. m.	9 a. m.	10 a. m.	Noon.	1 p. m.	2 p. m.	3 p. m.	4 p. m.	5 p. m.	6 p. m.	7 p. m.	8 p. m.	9 p. m.	10 p. m.	11 p. m.	Midnight.			
Bismarck, N. Dak.	16.6	16.5	16.5	16.0	15.7	16.0	15.8	15.7	15.1	15.5	16.8	19.0	20.4	21.4	23.2	24.6	24.5	23.2	22.0	21.0	19.9	19.7	19.2	18.7	18.9	
Boston, Mass.	28.6	28.3	28.1	27.5	27.1	26.9	26.7	26.8	27.5	29.4	31.2	33.5	34.5	35.2	34.8	34.3	33.5	32.4	31.6	31.1	30.5	29.9	29.5	29.2	30.3	
Buffalo, N. Y.	29.1	28.7	28.5	28.3	28.2	28.2	28.2	28.4	28.9	29.7	30.8	31.6	32.4	32.7	32.6	32.2	31.6	30.8	30.7	30.2	29.8	29.5	29.2	30.1		
Chicago, Ill.	31.5	31.3	31.0	31.0	30.8	30.7	30.5	30.5	30.6	31.1	32.3	33.9	34.8	35.8	36.2	36.5	35.6	34.9	34.7	33.8	33.1	32.8	32.5	33.0		
Cincinnati, Ohio	36.1	35.7	35.4	34.8	34.3	34.0	33.6	33.7	33.9	35.3	37.3	39.2	40.5	41.7	42.5	42.9	42.5	42.0	41.1	40.5	39.6	39.0	38.3	37.5	38.0	
Cleveland, Ohio																										
Detroit, Mich.	28.6	28.0	28.2	28.2	28.1	27.9	27.6	27.5	28.7	29.8	31.1	32.4	33.1	33.9	32.8	32.1	32.4	31.5	31.3	30.9	30.4	30.1	29.8	29.2	30.2	
Dodge City, Kans.	34.5	34.0	33.0	32.4	31.6	31.4	31.3	31.1	30.8	32.3	37.6	42.8	49.6	52.0	53.5	53.8	51.7	46.0	42.1	39.3	38.1	37.2	36.6	39.6		
Eastport, Me.	21.7	21.5	21.6	21.5	21.5	21.7	21.8	21.9	22.4	23.3	24.1	24.8	25.5	26.1	26.3	25.9	25.0	24.4	24.0	23.8	23.1	22.5	21.8	22.3	22.0	
Galveston, Tex.	55.4	53.3	55.0	54.5	54.3	53.5	53.4	53.4	54.2	55.3	56.8	58.3	59.3	59.0	60.9	60.9	57.8	57.3	57.0	56.8	56.4	56.5	56.4	56.5		
Havre, Mont.	27.8	28.4	28.1	28.0	28.2	29.0	30.0	29.9	30.3	29.5	29.5	30.4	32.5	33.2	34.4	35.3	35.4	34.6	31.9	31.4	30.1	29.6	29.3	28.5	30.6	
Kansas City, Mo.	37.4	36.7	36.5	35.9	35.1	34.6	34.4	34.1	33.8	34.8	37.3	40.2	42.5	44.5	46.2	47.1	46.9	45.7	44.5	43.5	42.2	41.3	40.3	39.4	39.8	
Key West, Fla.	69.5	69.3	69.1	69.1	69.1	68.9	68.7	68.9	69.3	69.6	70.2	70.5	71.4	71.4	71.6	71.4	70.4	70.0	69.8	69.6	69.5	69.9	69.5	69.9		
Memphis, Tenn.	44.4	43.9	42.7	42.0	41.5	40.9	39.3	40.2	40.5	41.0	44.5	48.2	50.2	52.1	53.5	54.2	54.1	52.8	51.5	50.1	49.0	48.3	47.4	46.4	46.6	
New Orleans, La.	51.3	50.7	50.2	49.6	49.3	48.8	48.5	48.5	49.3	51.2	53.7	56.6	58.6	59.8	60.9	60.9	57.8	56.5	55.0	54.2	53.4	52.7	52.7	54.0		
New York, N. Y.	29.9	29.5	29.0	28.7	28.6	28.4	28.4	28.7	29.2	30.5	32.4	33.3	34.7	35.5	36.2	36.9	35.4	34.3	33.5	32.2	32.3	32.0	31.8	30.6	31.7	
Philadelphia, Pa.	33.3	32.8	32.3	31.9	31.4	30.9	30.7	31.2	31.8	33.5	34.9	36.6	37.7	38.3	38.7	38.4	37.7	37.0	36.4	35.5	35.0	34.3	34.0	34.6		
Pittsburg, Pa.	33.5	33.2	32.6	32.5	32.3	32.2	32.3	32.8	32.9	33.8	35.1	36.7	38.2	39.2	39.9	40.3	39.7	39.1	38.4	37.1	36.5	35.9	35.1	34.6	35.6	
Portland, Oreg.	43.4	43.3	43.1	42.7	43.2	42.9	42.9	43.1	42.8	42.6	42.4	42.6	43.4	43.7	44.5	45.0	45.4	45.6	45.2	44.6	44.3	43.8	43.7	43.7		
St. Louis, Mo.	37.9	37.5	37.1	36.6	36.1	35.6	35.5	35.3	36.3	38.4	40.4	42.3	44.2	45.5	46.3	46.5	44.2	43.2	41.3	40.5	39.8	39.3	39.8	40.2		
Washington, D. C.	32.6	32.4	32.2	31.9	31.5	31.1	30.8	31.3	32.4	34.8	37.1	39.0	40.7	42.0	42.5	42.4	41.2	39.4	37.7	36.4	35.3	34.6	33.9	33.3	35.7	

TABLE VI.—*Mean pressure for each hour of seventy-fifth meridian time, December, 1896.*

Stations.	Pressure												Midnight.												Mean.
	1 a. m.	2 a. m.	3 a. m.	4 a. m.	5 a. m.	6 a. m.	7 a. m.	8 a. m.	9 a. m.	10 a. m.	Noon.	1 p. m.	2 p. m.	3 p. m.	4 p. m.	5 p. m.	6 p. m.	7 p. m.	8 p. m.	9 p. m.	10 p. m.	11 p. m.	Midnight.		
Bismarck, N. Dak.	28.260	.258	.256	.258	.254	.247	.240	.238	.234	.238	.246	.235	.219	.206	.198	.202	.214	.219	.224	.226	.228	.231	.233	.233	
Boston, Mass.	29.975	.981	.978	.968	.971	.980	.991	.997	.005	.010	.005	.965	.969	.972	.982	.985	.986	.996	.004	.003	.002	.002	.002	.002	.008
Buffalo, N. Y.	29.300	.301	.300	.297	.306	.314	.323	.330	.340	.345	.341	.325	.306	.297	.290	.293	.295	.305	.307	.305	.304	.305	.305	.310	
Chicago, Ill.	29.271	.267	.275	.271	.264	.262	.267	.275	.281	.291	.297	.282	.264	.246	.226	.229	.233	.235	.237	.236	.234	.234	.236	.236	
Cincinnati, Ohio	29.550	.551	.552	.551	.551	.554	.561	.571	.578	.580	.564	.540	.524	.514	.512	.515	.522	.534	.538	.540	.540	.540	.540	.545	
Cleveland, Ohio																									
Detroit, Mich.	29.368	.367	.373	.369	.369	.369	.376	.388	.387	.393	.376	.357	.343	.337	.342	.348	.356	.362	.367	.369	.368	.367	.367	.367	
Dodge City, Kans.	27.528	.525	.520	.523	.525	.520	.524	.525	.532	.532	.532	.533	.534	.515	.491	.469	.455	.455	.459	.470	.483	.491	.495	.498	.500
Eastport, Me.	29.965	.967	.960	.952	.949	.953	.965	.979	.993	.995	.981	.970	.961	.959	.959	.966	.973	.979	.980	.991	.990	.987	.983	.973	
Galveston, Tex.	30.216	.207	.201	.195	.194	.197	.207	.211	.228	.236	.232	.214	.182	.167	.157	.157	.163	.169	.183	.194	.202	.205	.204	.197	
Havre, Mont.	27.301	.299	.295	.291	.296	.291	.287	.286	.292	.299	.309	.321	.324	.310	.302	.294	.292	.293	.296	.301	.297	.295	.295	.296	
Kansas City, Mo.	29.171	.166	.165	.167	.165	.168	.166	.170	.176	.185	.191	.193	.173	.152	.132	.124	.123	.122	.125	.131	.137	.139	.140	.146	
Key West, Fla.	30.109	.100	.088	.085	.086	.084	.114	.132	.142	.142	.126	.101	.085	.076	.075	.080	.089	.101	.113	.123	.127	.126	.120	.105	
Memphis, Tenn.	29.815	.811	.812	.814	.813	.813	.815	.825	.834	.845	.846	.846	.820	.795	.778	.771	.766	.772	.773	.785	.789	.792	.795	.797	
New Orleans, La.	30.174	.171	.167	.165	.164	.167	.178	.186	.201	.213	.216	.203	.177	.150	.136	.130	.131	.137	.148	.158	.166	.173	.175	.174	.169
New York, N. Y.	29.807	.808	.807	.802	.801	.807	.821	.832	.843	.849	.841	.830	.820	.816	.815	.816	.822	.827	.829	.830	.829	.828	.828	.829	
Philadelphia, Pa.	30.051	.057	.059	.053	.055	.061	.075	.082	.099	.103	.094	.082	.061	.056	.054	.056	.059	.067	.065	.065	.064	.061	.067		
Pittsburg, Pa.	29.270	.275	.281	.282	.283	.287	.296	.299	.303	.308	.310	.298	.279	.268	.259	.257	.257	.261	.265	.271	.269	.270	.270	.279	
Portland, Oreg.	29.855	.857	.856	.855	.853	.855	.848	.846	.846	.851	.856	.867	.882	.868	.874	.863	.862	.851	.848	.850	.852	.855	.857		
St. Louis, Mo.	29.611	.604	.606	.609	.604	.603	.608	.615	.620	.625	.630	.624	.603	.585	.571	.566	.560	.570	.575	.581	.589	.591	.592	.598	
St. Paul, Minn.	29.207	.203	.199	.203	.198	.194	.193	.191	.194	.198	.208	.214	.198	.184	.175	.174	.178	.184	.182	.183	.180	.178	.178	.191	
Salt Lake City, Utah	25.809	.809	.805	.804	.805	.800	.798	.793	.797	.807	.813	.815	.801	.783	.773	.770	.773	.777	.779	.785	.78				

MONTHLY WEATHER REVIEW.

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TABLE VII.—Average wind movement for each hour of seventy-fifth meridian time, December, 1896.

Stations.	1 a.m.	2 a.m.	3 a.m.	4 a.m.	5 a.m.	6 a.m.	7 a.m.	8 a.m.	9 a.m.	10 a.m.	Noon.	1 p.m.	2 p.m.	3 p.m.	4 p.m.	5 p.m.	6 p.m.	7 p.m.	8 p.m.	9 p.m.	10 p.m.	11 p.m.	Midnight.	Mean.	
Abilene, Tex.	7.6	7.0	7.4	7.4	7.5	8.4	7.9	6.9	6.6	7.2	8.0	10.1	10.2	10.3	10.1	10.4	10.3	9.9	8.5	7.1	7.0	7.0	8.2		
Albany, N. Y.	7.0	7.2	7.5	7.7	8.2	7.7	7.9	7.9	8.2	9.0	9.7	10.3	10.9	9.9	9.8	8.2	7.4	7.5	6.8	7.1	7.2	7.4	7.3	8.1	
Alpena, Mich.	8.4	7.9	7.8	7.6	7.3	7.7	7.8	7.8	8.0	8.5	9.1	10.4	10.5	10.6	10.5	10.2	9.7	9.4	8.6	8.6	8.9	8.2	8.4	8.8	
Amarillo, Tex.	13.4	13.6	14.1	14.7	14.6	14.1	14.3	13.7	14.3	13.6	13.5	15.0	16.0	16.0	15.7	15.2	14.8	13.8	11.7	12.4	12.6	13.1	14.3	14.1	
Atlanta, Ga.	9.8	9.7	9.8	10.3	10.1	9.1	8.4	8.2	8.2	9.2	9.7	9.5	10.0	10.2	10.3	9.6	9.6	8.5	8.6	9.6	10.1	10.4	9.8	9.9	9.5
Atlantic City, N. J.	12.0	12.2	12.0	12.8	13.4	13.2	13.0	13.5	13.6	14.5	14.4	14.7	14.4	14.8	14.1	13.0	12.2	11.5	11.7	12.5	11.8	11.4	11.8	12.9	
Augusta, Ga.	4.9	5.1	4.7	4.4	4.7	4.7	4.5	4.5	4.8	5.3	6.1	6.4	6.8	6.7	7.3	6.8	6.2	5.1	4.5	4.1	4.0	4.2	4.5	4.2	5.2
Baker City, Oreg.	5.8	6.6	6.3	6.1	6.7	7.0	6.6	7.2	6.5	6.1	6.8	7.3	6.8	6.6	7.5	6.7	6.2	5.6	4.7	4.9	5.8	6.3	6.5	6.1	6.4
Baltimore, Md.	3.6	3.7	3.7	3.5	3.5	3.3	4.2	4.5	4.8	5.4	6.0	6.3	6.2	6.1	6.0	5.5	4.8	4.2	4.1	3.5	3.6	3.7	3.9	3.5	4.5
Bismarck, N. Dak.	6.7	6.7	6.4	6.3	6.2	5.8	6.5	5.5	5.4	5.3	5.5	5.2	6.2	6.9	7.5	7.9	7.8	7.2	6.6	6.2	6.5	6.2	6.7	6.5	
Block Island, R. I.	18.4	18.8	18.9	19.1	19.2	19.8	19.5	20.5	20.5	21.2	20.7	21.0	21.5	20.3	19.7	18.8	18.2	18.0	18.2	18.4	18.8	19.5	19.5	19.4	
Boston, Mass.	11.4	11.4	11.5	12.5	12.4	12.4	12.9	13.1	13.4	13.6	13.8	14.4	14.5	14.7	14.1	12.8	11.3	11.6	11.5	11.6	11.5	11.6	11.5	12.6	
Buffalo, N. Y.	17.1	17.0	16.7	16.5	16.2	15.7	14.9	15.1	15.5	15.9	17.5	18.3	18.0	17.8	16.5	17.4	18.0	18.5	18.0	17.6	17.2	16.3	15.8	16.9	
Cairo, Ill.	7.6	7.3	7.0	7.3	6.5	6.6	6.7	7.1	7.6	8.7	9.6	9.3	9.6	9.6	10.0	9.5	8.0	7.8	7.7	8.2	8.1	7.5	8.1	7.5	
Cape Henry, Va.	16.5	16.7	16.2	16.5	17.9	17.4	16.7	17.0	17.2	17.3	17.5	17.2	16.6	16.4	14.4	14.0	13.9	14.9	15.2	15.8	15.7	15.3	16.0		
Charleston, S. C.	8.0	8.0	7.5	7.8	7.8	7.5	8.3	8.0	7.8	8.4	8.3	7.8	8.0	8.2	8.3	7.9	7.4	6.0	6.4	6.5	6.7	7.5	7.0	6.6	7.6
Charlotte, N. C.	6.9	7.3	6.7	6.8	6.9	6.8	6.3	6.3	6.3	7.1	6.9	6.9	7.2	7.5	7.4	6.9	6.3	6.1	6.4	6.2	6.6	6.8	7.1	6.8	
Chattanooga, Tenn.	5.9	5.2	5.8	5.5	5.4	5.2	5.1	5.3	5.4	5.8	6.5	7.5	8.0	8.5	8.6	8.9	8.2	7.9	6.8	6.7	6.6	5.3	6.6		
Cheyenne, Wyo.	9.9	11.1	11.4	10.3	11.0	10.3	10.9	11.1	11.3	10.8	11.8	13.7	15.5	16.9	16.3	14.8	13.8	10.6	10.5	9.8	9.3	9.8	10.1	12.0	
Chicago, Ill.	15.2	14.6	14.3	14.6	14.3	14.9	15.5	15.3	16.0	15.8	16.5	16.7	17.9	17.1	16.4	16.5	16.5	16.5	17.4	16.7	16.4	15.5	16.0		
Cincinnati, Ohio.	6.6	6.8	6.5	6.2	6.0	5.8	5.7	5.9	6.4	7.2	8.2	9.2	9.6	9.6	9.5	9.0	8.2	7.5	6.8	6.7	6.8	7.2	7.0	7.3	
Cleveland, Ohio.	15.5	14.7	14.3	14.3	14.3	13.6	13.4	12.9	12.5	13.1	13.6	13.7	15.0	15.2	15.6	15.1	14.8	14.5	15.4	16.2	16.2	16.0	15.9	15.8	14.7
Columbia, Mo.	8.0	7.6	7.6	7.8	7.6	7.9	7.6	8.1	8.4	8.5	9.0	9.5	9.5	9.7	9.9	9.5	9.1	7.7	7.9	8.3	8.1	8.6	8.4	8.2	8.4
Columbus, Ohio.	6.7	7.2	6.6	6.7	6.3	6.6	6.3	6.9	7.7	7.7	8.4	8.9	8.9	9.2	9.0	9.2	8.3	7.7	8.0	8.0	7.8	7.5	7.2	7.7	
Concordia, Kans.	5.3	5.3	5.1	5.3	5.2	4.5	4.9	5.1	5.9	5.8	6.4	7.2	7.4	7.4	7.1	7.1	5.2	4.9	5.7	5.5	6.3	5.5	5.3	5.9	
Corpus Christi, Tex.	9.2	9.7	9.9	9.8	9.6	8.7	8.2	8.2	8.4	8.9	9.9	9.6	10.6	11.7	11.3	11.6	11.7	10.6	9.0	8.2	8.2	8.5	8.7	8.9	9.5
Davenport, Iowa.	6.2	6.4	6.3	6.1	5.9	5.8	6.3	6.3	6.6	6.9	7.6	8.1	8.2	8.8	8.4	7.8	6.9	6.2	6.2	6.3	6.1	6.2	6.6	6.9	
Denver, Colo.	7.7	7.3	7.6	8.0	8.5	8.0	7.3	7.8	8.7	7.5	6.9	6.5	5.7	5.8	7.4	8.0	8.8	8.3	7.6	8.4	7.2	7.6			
Des Moines, Iowa.	6.3	6.2	5.6	5.6	5.3	6.3	6.0	6.5	6.8	6.9	7.4	8.2	9.1	9.6	9.2	8.7	8.2	7.5	7.1	6.8	6.9	6.5	7.2		
Detroit, Mich.	9.0	9.0	8.9	8.2	8.2	7.9	8.2	8.6	9.6	10.3	10.5	10.8	11.2	10.9	10.3	9.5	9.2	9.3	9.4	9.4	9.2	9.1	9.4		
Dodge City, Kans.	8.4	8.0	8.4	8.7	8.6	8.6	8.9	8.8	8.8	8.9	10.2	11.3	11.3	12.0	11.8	12.4	11.4	9.5	7.5	7.1	6.9	7.7	8.5	8.6	9.3
Dubuque, Iowa.	2.7	3.3	3.2	3.1	3.3	3.5	3.4	3.4	3.7	4.4	5.0	4.9	4.9	4.8	4.9	4.1	3.3	3.4	3.2	3.3	3.2	3.2	3.7		
Duluth, Minn.	9.2	9.9	8.9	8.3	9.4	8.8	8.3	8.0	8.1	7.9	8.2	8.6	8.5	8.1	8.5	8.3	8.3	7.8	8.9	9.6	9.3	9.6	8.6		
Eastport, Me.	13.3	13.2	13.4	14.0	14.8	14.8	14.0	13.6	14.7	14.1	13.7	13.5	12.8	13.0	13.0	12.8	13.1	13.7	14.7	15.3	14.7	13.9	13.9		
El Paso, Tex.	7.8	9.2	8.2	8.6	8.6	8.9	7.9	8.1	8.5	8.7	9.5	11.2	12.9	13.1	13.9	13.1	12.3	10.5	8.5	7.5	8.2	8.0	7.9	9.6	
Erie, Pa.	12.2	12.5	12.6	12.8	12.1	11.6	11.2	11.6	11.6	11.4	11.0	11.2	12.7	13.1	12.3	11.5	11.6	12.1	12.0	11.2	12.7	12.3	12.4	12.0	
Eureka, Cal.	5.7	5.0	4.5	4.6	4.7	4.4	4.6	5.1	5.9	5.6	5.2	4.7	4.4	4.4	5.7	6.7	7.0	7.2	7.4	6.6	5.9	5.9	5.3	5.6	
Fort Canby, Wash.	23.2	23.8	23.3	23.5	23.3	22.0	21.0	20.3	21.0	20.4	20.1	20.3	20.4	20.2	20.9	19.9	19.5	21.6	21.5	21.1	21.0	19.6	21.2	21.1	
Fort Smith, Ark.	6.0	5.7	6.5	6.0	6.1	5.9	5.6	6.0	5.5	5.4	6.4	6.9	6.8	6.5	7.4	7.4	6.2	5.9	5.7	5.5	5.6	5.9	6.1		
Fresno, Cal.	3.1	3.5	3.7	3.7	3.5	3.8	3.6	3.7	3.9	4.3	4.0	4.0	4.3	4.5	4.4	4.6	3.8	4.0	3.5	3.1	3.2	3.2	3.8		
Galveston, Tex.	11.3	11.5	10.9	10.8	10.5	10.2	10.1	10.3	10.6	10.1	10.7	10.7	11.0	11.2	11.0	10.3	10.1	9.8	9.8	9.9	10.2	10.6	10.8	10.5	
Grand Haven, Mich.	9.0	8.7	9.0	8.8	8.6	8.3	8.7	9.4	9.4	10.3	11.2	11.6	11.5	11.2	10.8	10.5	10.1	9.7	9.9	9.8	10.3	9.8	9.4		
Greenbay, Wis.	6.9	6.4	6.9	6.9	7.2	6.8	6.7	6.6	6.3	6.9	8.0	7.8	8.4	8.1	7.8	7.0	6.4	6.2	5.7	6.0	6.3	6.5	6.8		
Hannibal, Mo.	8.5	8.1	8.0	8.1	7.8	7.4	7.8	7.6	7.7	8.9	9.9	10.4	10.5	10.7	10.6	10.2	10.0	8.3	8.5	8.7	9.1	8.8			
Harrisburg, Pa.	7.1	7.1	7.3	6.6	6.1	6.8	6.5	7.2	8.1	8.5	9.5	8.8	8.1	7.8	7.6	6.9	6.4	6.1	5.6	6.0	6.5	6.7	7.2		
Hatteras, N. C.	16.1	16.2	16.4	16.1	16.1	16.3	16.1	15.9	16.5	16.3	15.8	15.3	14.9	14.5	14.0	14.4	15.7	15.5	15.4	15.5	15.5	15.3	15.6		
Havre, Mont.	7.6	8.5	9.5	9.0	9.0	10.9	11.3	12.5	11.6	10.6	10.3	11.0	11.4	10.5	10.3	9.7	9.5	9.0	8.7	7.7	7.6	7.7	9.8		
Helena, Mont.	5.7	5.1	5.4	5.5	5.5	5.7	5.4	4.7	4.6	4.5	4.8	4.3	4.6	4.5	4.3	4.8	4.2	4.1	4.2	4.3	4.2	4.3	4.7		
Huron, S. Dak.	11.4	11.6	11.4	11.6	11.3	10.6	11.1	10.5	10.3	10.9	11.1	11.5	11.0	11.7	11.5	11.2	10.8	10.3	11.2	12.3	12.5	12.6	11.4		
Idaho Falls, Idaho.	6.6	7.1	7.6	7.1	7.6	6.2	6.0	5.9	5.3	5.6	5.5	6.3	6.0	6.3	6.5	5.7	5.8	5.9	6.0	6.2	6.6	6.7	6.3		
Indianapolis, Ind.	9.1	8.8	8.																						

TABLE VII.—*Average wind movement, etc.—Continued.*

Stations.	Wind Movement												Wind Movement												Midnight.	Mean.
	1 a. m.	2 a. m.	3 a. m.	4 a. m.	5 a. m.	6 a. m.	7 a. m.	8 a. m.	9 a. m.	10 a. m.	Noon.	1 p. m.	2 p. m.	3 p. m.	4 p. m.	5 p. m.	6 p. m.	7 p. m.	8 p. m.	9 p. m.	10 p. m.	11 p. m.				
Pensacola, Fla.....	8.5	8.2	8.9	9.0	9.9	9.8	9.7	10.0	9.9	11.0	10.3	10.4	10.2	10.4	10.5	9.6	8.3	7.5	7.8	8.5	8.9	9.0	9.2	4.7	4.4	
Philadelphia, Pa.....	8.8	9.8	9.4	9.6	8.7	8.5	8.9	9.6	10.2	10.7	11.0	10.9	11.5	11.4	11.5	10.9	10.1	9.2	8.8	9.2	9.4	9.3	8.7	8.4	9.8	
Phoenix, Ariz.....	2.7	2.6	2.7	3.5	3.6	3.2	2.9	2.8	2.8	3.0	3.3	3.1	4.4	4.2	4.0	3.8	3.7	3.0	2.4	2.3	2.2	2.3	2.4	3.1	3.1	
Pierre, S. Dak.....	6.1	5.2	5.6	5.9	6.3	6.0	6.7	6.9	6.5	6.2	6.3	7.5	8.5	8.7	8.9	9.3	7.7	6.8	7.3	6.6	6.7	6.2	5.9	6.1	6.8	
Pittsburg, Pa.....	5.5	6.0	6.3	5.8	6.1	5.8	5.8	6.0	6.5	6.6	7.2	7.4	7.1	7.4	7.5	7.2	7.0	6.5	6.5	6.2	6.2	5.7	5.4	6.4	6.4	
Port Angeles, Wash.....	4.6	4.6	4.9	4.8	4.9	5.0	5.0	5.1	5.1	4.7	4.6	4.4	3.8	3.4	3.5	3.7	4.0	3.2	3.1	3.2	4.1	5.0	5.2	4.7	4.4	
Port Huron, Mich.....	9.1	9.6	9.3	9.1	9.6	9.9	9.8	9.9	10.0	10.5	11.2	11.8	11.5	11.9	12.6	12.5	11.7	11.0	10.9	11.3	10.7	10.4	10.0	12.6	10.6	
Portland, Me.....	7.8	7.8	7.8	7.4	7.1	7.3	7.2	7.2	7.8	8.6	8.7	8.6	8.2	8.5	8.0	7.6	6.6	6.9	7.2	7.4	7.9	8.4	8.1	8.2	7.8	
Portland, Oreg.....	8.5	8.4	8.4	8.9	8.6	8.9	8.9	8.5	8.7	8.4	8.4	9.4	9.6	9.6	9.0	8.6	8.1	7.5	7.4	8.3	8.1	8.5	8.6	8.6	8.6	
Pueblo, Colo.....	5.5	4.9	4.4	4.4	4.8	4.8	5.3	5.4	4.9	4.9	5.2	5.5	7.3	7.8	7.1	7.0	7.5	6.2	5.1	5.2	5.2	5.6	6.2	5.6	6.2	
Raleigh, N. C.....	5.9	6.0	6.0	6.4	6.2	5.8	5.7	5.5	6.0	6.7	7.4	7.4	7.7	7.6	7.2	6.7	5.9	5.8	5.6	5.8	5.9	5.7	5.7	5.7	6.3	
Rapid City, S. Dak.....	8.2	7.8	8.9	7.9	7.2	7.9	7.9	7.8	6.9	7.4	7.1	6.9	7.2	8.2	9.5	9.5	8.8	7.9	6.9	6.8	7.2	7.4	8.7	8.7	7.9	
Redbluff, Cal.....	5.4	5.8	5.1	5.1	5.4	5.8	5.3	6.0	5.8	5.7	6.0	5.4	5.8	6.4	7.1	7.0	6.1	5.8	5.6	5.1	5.3	5.7	5.3	5.7	5.7	
Rochester, N. Y.....	7.7	7.9	8.2	8.0	7.9	7.7	7.7	7.5	7.9	8.5	9.4	9.9	10.2	9.7	9.3	8.7	8.5	8.2	8.0	7.9	8.2	8.0	8.0	8.4	8.4	
Roseburg, Oreg.....	2.4	2.1	2.4	2.5	2.7	2.9	2.7	2.5	2.8	2.7	3.0	3.1	2.8	3.5	3.9	4.4	4.6	3.8	3.6	3.2	2.6	2.5	2.3	3.0	3.0	
Sacramento, Cal.....	7.0	7.0	7.0	7.5	6.7	7.1	6.9	6.7	7.1	7.8	7.7	8.5	8.9	9.3	9.1	9.0	8.5	8.0	6.9	6.3	7.1	7.0	6.5	7.6	7.6	
St. Louis, Mo.....	10.2	9.8	9.2	9.3	9.4	9.5	9.6	9.7	10.2	10.5	10.9	10.9	10.9	11.2	10.9	10.5	9.8	9.8	10.4	10.0	10.5	10.2	9.9	10.2	10.2	
St. Paul, Minn.....	6.5	6.0	5.7	5.7	5.8	5.7	5.7	5.6	5.7	5.8	6.1	6.3	7.3	7.5	7.4	7.2	7.1	6.3	6.0	6.2	6.3	6.2	6.3	6.8	6.8	
Salt Lake City, Utah.....	4.1	4.0	3.8	4.1	3.8	4.0	4.4	3.7	3.5	4.0	3.9	3.8	3.7	4.9	5.6	6.2	6.7	5.9	5.0	4.3	3.9	3.7	3.7	3.9	4.4	
San Antonio, Tex.....	6.5	6.6	6.5	6.8	6.5	6.6	7.0	6.8	6.5	6.7	7.8	9.2	9.4	9.9	9.7	9.4	8.9	7.5	7.0	7.1	7.0	5.9	7.6	7.6		
San Diego, Cal.....	2.4	2.4	2.3	2.7	2.7	3.0	3.1	3.1	2.9	2.9	2.7	2.4	2.4	3.3	5.1	6.2	6.8	6.7	6.1	4.6	3.1	2.8	2.5	2.4	3.5	
Sandusky, Ohio.....	8.4	8.2	8.2	8.4	8.5	8.4	8.2	8.3	8.2	8.5	9.4	9.3	9.3	9.5	9.9	9.8	9.5	9.2	9.7	9.3	8.8	8.7	8.3	8.9		
San Francisco, Cal.....	7.1	7.0	6.3	6.0	6.2	5.8	6.1	6.9	7.5	7.6	7.4	6.9	7.6	8.2	8.0	9.0	9.4	9.1	9.2	9.3	9.5	8.8	8.0	7.5		
San Luis Obispo, Cal.....	3.7	3.4	3.6	3.2	4.3	4.5	4.7	3.9	4.1	3.6	3.7	3.1	3.9	5.0	5.8	6.4	6.3	6.1	5.2	4.9	4.3	4.4	3.5	4.4		
Santa Fe, N. Mex.....	5.0	5.1	5.2	5.5	5.1	5.1	4.7	5.1	5.4	6.2	5.8	6.1	7.0	7.5	7.3	8.3	8.0	7.4	5.0	5.3	4.2	4.0	4.5	5.1	5.8	
Sault Ste Marie, Mich.....	7.2	7.5	6.9	6.3	6.6	6.8	6.8	7.4	7.6	8.0	8.2	8.1	9.3	9.1	9.2	9.3	8.7	9.1	8.5	8.2	8.0	7.5	8.2	8.0		
Savannah, Ga.....	7.9	7.9	8.2	7.9	8.0	8.0	8.0	7.9	8.2	8.8	9.0	9.2	9.3	9.3	9.4	9.4	8.6	7.2	7.1	7.6	7.8	7.4	7.5	8.0		
Seattle, Wash.....	6.5	6.7	6.4	6.5	6.4	6.8	7.2	6.8	6.9	6.6	6.7	6.8	7.0	6.8	7.3	7.5	6.9	6.3	6.1	6.7	6.5	7.0	6.6	6.4		
Shreveport, La.....	6.0	6.8	6.0	5.4	5.5	6.1	6.4	5.9	5.6	5.7	6.5	6.5	7.4	7.4	7.6	7.3	7.5	7.2	6.1	6.2	6.1	6.0	6.3	6.1	6.4	
Sioux City, Iowa.....	7.7	8.4	8.5	8.9	8.9	8.8	8.4	8.8	9.0	8.8	9.1	9.1	9.6	10.5	10.8	10.2	9.8	9.1	8.8	9.3	8.5	9.1	8.5	9.0		
Spokane, Wash.....	3.9	4.4	4.9	5.1	5.2	4.6	5.0	4.7	4.6	5.0	4.9	4.3	4.5	5.1	5.4	5.8	5.7	5.1	4.8	4.2	3.6	3.7	3.9	4.7		
Springfield, Ill.....	8.3	8.4	8.3	7.7	7.9	8.5	8.6	8.6	8.8	9.4	10.3	10.7	11.1	11.3	11.0	10.4	9.7	8.8	8.7	9.0	9.3	9.4	8.6	9.2		
Springfield, Mo.....	9.5	9.9	10.2	9.6	9.7	10.2	9.8	9.2	9.8	10.4	10.6	11.3	11.1	11.0	11.4	11.2	10.6	9.6	9.5	9.4	9.8	10.1	9.7	10.0		
Tampa, Fla.....	6.0	6.1	6.2	5.7	6.1	5.7	6.3	6.5	6.8	7.3	7.7	7.7	9.1	8.1	8.4	8.3	7.3	5.6	5.7	5.6	5.5	5.5	5.1	6.6		
Tatoosh Island, Wash.....	19.9	22.8	21.7	21.6	20.3	18.4	16.4	17.4	17.9	18.3	17.6	16.7	18.3	18.6	18.1	18.6	18.1	17.5	18.6	19.4	18.9	19.6	19.4	18.8		
Toledo, Ohio.....	8.9	9.0	8.7	8.7	8.5	8.5	8.2	8.5	9.4	9.5	10.1	10.6	10.9	11.3	10.8	10.8	10.1	9.5	9.2	8.7	9.4	8.9	8.5	9.4		
Vicksburg, Miss.....	7.2	7.3	7.3	7.5	7.4	7.2	7.2	6.8	6.8	7.1	7.7	6.8	7.0	6.3	6.8	6.6	6.7	5.9	5.9	6.3	6.5	6.4	6.9	6.6		
Vineyard Haven, Mass.....	9.8	9.5	10.0	10.3	9.9	10.5	10.6	10.8	11.1	12.1	12.3	12.4	12.7	12.4	11.9	10.8	9.6	9.8	9.8	9.4	9.4	9.9	9.6	10.6		
Walla Walla, Wash.....	4.5	5.5	5.8	5.4	4.9	5.5	5.5	5.1	4.8	5.0	5.6	5.4	5.0	5.1	5.1	5.2	4.3	4.5	4.4	4.1	4.3	4.0	4.4	4.9		
Washington, D. C.....	5.9	5.6	5.4	5.3	4.8	5.3	5.7	5.9	6.2	8.4	8.8	9.8	9.7	9.4	9.6	8.6	8.6	6.0	5.3	5.5	5.1	5.7	5.6	6.1	6.7	
Wichita, Kans.....	6.6	6.2	6.5	6.6	6.6	7.1	7.0	6.9	7.2	7.6	8.5	8.7	9.4	10.3	10.5	10.2	9.4	7.9	6.9	6.5	6.8	6.5	6.8	7.6		
Williston, N. Dak.....	5.7	6.0	6.1	5.3	5.1	5.7	6.0	5.8	4.8	6.0	6.3	6.0	5.9	7.2	8.5	8.0	7.5	6.5	6.9	7.0	6.5	6.0	5.4	6.3		
Wilmington, N. C.....	7.9	8.2	7.7	7.6	7.5	7.5	7.4	7.5	8.2	8.6	9.2	8.9	9.8	9.1	8.5	7.9	6.8	6.8	7.0	7.4	7.3	7.9				
Winnebucca, Nev.....	8.1	8.4	8.1	7.8	6.6	7.0	8.0	7.8	7.8	8.8	8.8	8.9	7.6	8.1	9.7	10.8	10.7	10.3	9.5	9.0	8.4	8.4	8.0	8.7		
Woods Hole, Mass.....	18.5	18.4	18.7	19.0	19.3	18.9	18.4	19.3	19.7	19.2	18.8	19.7	19.6	19.0	18.3	17.4	18.0	17.5	18.1	18.2	17.8	18.5	18.6			
Yuma, Ariz.....	4.1	4.1	4.4	4.1	4.2	4.9	5.6	5.9	5.7	5.4	5.6	6.1	7.1	8.3	9.1	9.6	9.6	8.9	8.4	6.4	5.5	5.2	5.1	6.2		

* For 27 days.

TABLE VIII.—This table is now made out by the River and Flood Service, and is, therefore, published on page 452.

TABLE IX.—Resultant winds from observations at 8 a. m. and 8 p. m., daily, during December, 1896.

Stations.	Component direction from—				Resultant.		Stations.	Component direction from—				Resultant.	
	N.	S.	E.	W.	Direction from—	Duration.		N.	S.	E.	W.	Direction from—	Duration.
<i>New England.</i>													
Eastport, Me.	29	11	3	32	n. 58 w.	34	Upper Lake Region—Cont'd.	Hours.	Hours.	Hours.	Hours.	°	Hours.
Portland, Me.	28	9	4	34	n. 58 w.	36	Milwaukee, Wis.	21	19	9	29	n. 84 w.	20
Northfield, Vt.	31	21	3	9	n. 31 w.	12	Greenbay, Wis.	13	34	4	24	s. 44 w.	29
Boston, Mass.	18	16	4	39	n. 87 w.	35	Duluth, Minn.	20	21	7	34	s. 88 w.	27
Nantucket, Mass.	33	11	9	26	n. 39 w.	28	<i>North Dakota.</i>						
Woods Hole, Mass.*	11	9	3	16	n. 81 w.	13	Moorhead, Minn.	18	20	8	19	s. 45 w.	16
Block Island, R. I.	30	8	16	28	n. 29 w.	13	Bismarck, N. Dak.	26	12	21	21	n.	14
New Haven, Conn.	29	14	2	26	n. 58 w.	28	Williston, N. Dak.	18	23	15	24	s. 66 w.	10
<i>Middle Atlantic States.</i>													
Albany, N. Y.	27	25	3	16	n. 81 w.	13	<i>Upper Mississippi Valley.</i>						
Binghamton, N. Y.†	16	4	9	10	n. 5 w.	12	St. Paul, Minn.	10	30	17	21	s. 11 w.	20
New York, N. Y.	23	15	5	31	n. 55 w.	32	La Crosse, Wis.†	9	13	5	10	s. 51 w.	6
Harrisburg, Pa.	16	10	17	32	n. 68 w.	16	Davenport, Iowa	20	20	16	23	w.	7
Philadelphia, Pa.	25	12	4	33	n. 66 w.	32	Des Moines, Iowa	19	20	12	25	s. 86 w.	13
Atlantic City, N. J.	28	12	4	31	n. 59 w.	31	Dubuque, Iowa	17	25	14	20	s. 37 w.	10
Baltimore, Md.	19	13	13	31	n. 72 w.	31	Keokuk, Iowa	19	21	14	23	s. 61 w.	10
Washington, D. C.	27	20	8	18	n. 55 w.	12	Cairo, Ill.	21	27	15	11	s. 34 e.	7
Lynchburg, Va.	22	19	9	31	n. 82 w.	22	Springfield, Ill.	18	23	11	17	s. 31 w.	12
Norfolk, Va.	27	18	13	21	n. 43 w.	12	Hannibal, Mo.	15	23	14	25	s. 40 w.	17
<i>South Atlantic States.</i>							St. Louis, Mo.	16	29	12	14	s. 9 w.	13
Charlotte, N. C.	17	21	28	9	s. 73 e.	19	<i>Missouri Valley.</i>						
Hatteras, N. C.	39	6	7	18	n. 18 w.	35	Columbia, Mo.*	5	13	8	11	s. 21 w.	8
Kittyhawk, N. C.‡	25	12	7	18	n. 40 w.	17	Kansas City, Mo.	20	23	15	20	s. 59 w.	6
Raleigh, N. C.	29	12	6	22	n. 43 w.	23	Springfield, Mo.	15	27	20	18	s. 9 e.	12
Wilmington, N. C.	34	10	9	19	n. 23 w.	26	Omaha, Nebr.	22	23	7	24	w.	17
Charleston, S. C.	35	6	19	14	n. 10 e.	29	Sioux City, Iowat.	12	12	5	7	w.	2
Augusta, Ga.	36	10	10	23	n. 27 w.	29	Pierre, S. Dak.	14	18	27	16	s. 70 e.	12
Savannah, Ga.	36	10	15	18	n. 7 w.	34	Huron, S. Dak.	16	23	14	18	s. 18 w.	13
Jacksonville, Fla.	41	7	11	14	n. 5 w.	34	<i>Northern Slope.</i>						
<i>Florida Peninsula.</i>							Havre, Mont.	15	14	13	33	n. 87 w.	20
Jupiter, Fla.	20	7	19	28	n. 35 w.	16	Miles City, Mont.	11	23	15	22	s. 27 w.	16
Key West, Fla.	35	5	36	6	n. 45 e.	42	Helena, Mont.	8	27	3	41	s. 63 w.	42
Tampa, Fla.	41	4	7	12	n. 8 e.	27	Rapid City, S. Dak.	11	23	12	33	s. 51 w.	27
<i>Eastern Gulf States.</i>							Cheyenne, Wyo.	23	10	0	39	s. 65 w.	43
Atlanta, Ga.	23	10	19	23	n. 17 w.	14	Lander, Wyo.	12	30	9	27	s. 45 w.	26
Pensacola, Fla.	35	4	27	7	n. 33 e.	37	North Platte, Nebr.	10	18	7	36	s. 75 w.	30
Mobile, Ala.	37	14	12	8	n. 10 e.	23	<i>Middle Slope.</i>						
Montgomery, Ala.	23	11	25	12	n. 47 e.	18	Denver, Colo.	12	32	6	18	s. 31 w.	23
Vicksburg, Miss.	22	20	26	9	n. 83 e.	17	Pueblo, Colo.	25	8	17	27	s. 30 w.	20
New Orleans, La.	34	12	24	8	n. 36 e.	27	Concordia, Kans.	12	31	10	21	s. 30 w.	22
<i>Western Gulf States.</i>							Dodge City, Kans.	21	25	7	17	s. 68 w.	11
Shreveport, La.	17	25	17	17	s.	8	Wichita, Kans.	22	29	10	18	s. 16 e.	7
Fort Smith, Ark.	14	14	32	12	e.	20	Oklahoma, Okla.	18	30	10	17	s. 30 w.	14
Little Rock, Ark.	19	23	14	21	s. 60 w.	8	<i>Southern Slope.</i>						
Corpus Christi, Tex.	27	19	16	16	n.	8	Abilene, Tex.	16	30	10	20	s. 36 w.	17
Galveston, Tex.	22	14	25	12	n. 58 e.	15	Amarillo, Tex.	22	26	8	18	s. 68 w.	11
Palestine, Tex.	24	22	20	10	n. 79 e.	10	El Paso, Tex.	25	6	16	29	n. 34 w.	23
San Antonio, Tex.	27	15	20	9	n. 48 e.	16	Santa Fe, N. Mex.	27	14	35	5	n. 67 e.	33
<i>Ohio Valley and Tennessee.</i>							Phoenix, Ariz.	6	21	22	19	s. 11 e.	15
Chattanooga, Tenn.	24	17	19	19	n.	7	Yuma, Ariz.	35	5	24	6	n. 31 e.	35
Knoxville, Tenn.	32	11	20	17	n. 8 e.	21	<i>Middle Plateau.</i>						
Memphis, Tenn.	18	26	19	11	n. 45 e.	11	Carson City, Nev.	16	22	17	22	s. 40 w.	8
Nashville, Tenn.	22	18	17	18	n. 14 w.	4	Winnemucca, Nev.	13	20	27	16	s. 52 e.	11
Lexington, Ky.	13	28	15	21	s. 22 w.	21	Salt Lake City, Utah.	11	22	26	18	s. 36 e.	14
Louisville, Ky.	17	28	14	16	s. 10 w.	11	<i>Northern Plateau.</i>						
Indianapolis, Ind.	19	25	11	18	s. 49 w.	9	Baker City, Oreg.	7	39	22	10	s. 21 e.	34
Cincinnati, Ohio.	18	22	18	17	s. 14 e.	4	Idaho Falls, Idaho.	36	14	4	16	n. 29 w.	25
Columbus, Ohio.	21	21	11	26	w.	15	Spokane, Wash.	20	22	16	14	s. 45 e.	3
Pittsburg, Pa.	14	21	10	29	s. 70 w.	20	Walla Walla, Wash.	4	39	11	16	s. 8 w.	35
Parkersburg, W. Va.	14	26	16	19	s. 14 w.	12	<i>North Pacific Coast Region.</i>						
<i>Lower Lake Region.</i>							Fort Canby, Wash.	7	36	26	8	s. 32 e.	34
Buffalo, N. Y.	17	14	16	28	n. 76 w.	12	Port Angeles, Wash.*	1	17	13	7	s. 31 e.	17
Oswego, N. Y.	17	28	22	14	s. 36 e.	14	Seattle, Wash.	9	39	23	2	s. 35 e.	37
Rochester, N. Y.	10	26	10	23	s. 48 w.	24	Tatoosh Island, Wash.	7	29	29	5	s. 48 e.	33
Erie, Pa.	15	23	13	26	s. 58 w.	14	Portland, Oreg.	12	32	18	13	s. 14 e.	21
Cleveland, Ohio.	15	28	14	20	s. 25 w.	14	Roseburg, Oreg.	12	29	21	15	s. 19 e.	18
Sandusky, Ohio.	17	13	9	35	n. 81 w.	12	<i>Middle Pacific Coast Region.</i>						
Toledo, Ohio.	14	18	12	31	s. 78 w.	19	Eureka, Cal.	12	23	28	14	s. 52 e.	18
Detroit, Mich.	17	20	8	30	s. 82 w.	22	Redbluff, Cal.	21	20	18	21	n. 37 w.	5
<i>Upper Lake Region.</i>							Sacramento, Cal.	20	26	23	15	s. 53 e.	10
Alpena, Mich.	16	23	9	29	s. 71 w.	21	San Francisco, Cal.	29	13	9	23	n. 39 w.	21
Grand Haven, Mich.	16	22	26	16	s. 59 w.	12	<i>South Pacific Coast Region.</i>						
Marquette, Mich.	17	15	9	31	n. 85 w.	22	Fresno, Cal.	17	18	20	26	s. 80 w.	6
Port Huron, Mich.	14	23	10	24	s. 45 w.	20	Los Angeles, Cal.	31	6	20	22	n. 5 w.	25
Sault Ste. Marie, Mich.	12	25	24	17	s. 28 e.	15	San Diego, Cal.	32	5	22	19	n. 6 e.	27
Chicago, Ill.	16	19	6	32	s. 83 e.	26	San Luis Obispo, Cal.	31	20	9	7	n. 10 e.	11

*From observations at 8 p. m. only. † From observations at 8 a. m. only. ‡ For 27 days.

TABLE X.—*Thunderstorms and auroras, December, 1896.*

States.	No. of stations.	Total.																																
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	No.	Days.
Alabama.....	53	T.	1	8	1	10	3	T.
Arizona.....	48	T.	A.	0	0	A.	
Arkansas.....	51	T.	A.	1	1	1	A.		
California.....	197	T.	A.	3	1	A.		
Colorado.....	70	T.	A.	2	2	A.		
Connecticut.....	22	T.	A.	.	4	1	4	1	A.		
Delaware.....	6	T.	A.	.	2	1	0	0	A.		
Dist. of Columbia	4	T.	A.	.	1	1	0	0	T.			
Florida.....	38	T.	A.	1	1	1	A.			
Georgia.....	49	T.	A.	4	4	1	A.			
Idaho.....	96	T.	A.	.	1	1	1	.	.	.	.	.	.	.	.	1	.	.	.	.	.	.	.	.	.	.	.	1	1	A.
Illinois.....	97	T.	A.	1	2	.	.	.	2	.	1	1	.	.	2	.	.	.	.	.	.	.	.	.	.	.	.	1	2	A.
Indiana.....	48	T.	A.	.	1	1	.	.	.	.	.	.	.	.	.	1	.	.	.	.	.	.	.	.	.	.	.	3	3	A.
Indian Territory.	6	T.	A.	1	1	0	A.			
Iowa.....	101	T.	A.	.	4	0	0	T.			
Kansas.....	73	T.	A.	.	19	.	.	1	.	1	.	.	.	.	.	8	.	.	1	.	.	.	.	.	.	.	13	0	A.	
Kentucky.....	47	T.	A.	.	.	.	.	.	.	.	.	.	.	.	.	1	.	.	.	.	.	.	.	.	.	.	.	10	7	A.
Louisiana.....	48	T.	A.	1	.	.	.	.	1	.	.	.	.	.	.	1	2	1	.	.	.	.	.	.	.	.	.	17	0	A.
Maine.....	16	T.	A.	1	5	.	.	.	.	1	.	.	.	.	.	1	.	.	.	.	.	.	.	.	.	.	.	8	4	A.
Maryland.....	31	T.	A.	.	11	3	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	14	0	A.
Massachusetts.....	77	T.	A.	.	22	1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	24	A.
Michigan.....	96	T.	A.	.	2	.	.	.	.	.	.	.	.	.	1	1	4	2	.	1	.	.	.	.	.	.	12	0	A.	
Minnesota.....	69	T.	A.	.	.	.	.	.	.	.	.	.	.	.	.	4	.	.	.	.	.	.	.	.	.	.	.	1	5	A.
Mississippi.....	52	T.	A.	.	.	.	.	.	1	.	.	.	.	.	.	4	.	.	.	.	.	.	.	.	.	.	.	8	7	A.
Missouri.....	96	T.	A.	.	.	.	.	1	1	.	.	.	.	.	1	1	.	.	.	.	.	.	.	.	.	.	1	1	A.	
Montana.....	40	T.	A.	1	9	1	.	.	1	1	.	.	.	.	.	1	1	1	.	1	.	.	.	.	.	.	1	1	A.	
Nebraska.....	112	T.	A.	.	20	1	1	.	.	.	.	.	.	.	1	1	1	1	.	.	.	.	.	.	.	.	25	0	A.	
Nevada.....	39	T.	A.	.	.	.	.	.	.	.	.	.	.	.	1	.	.	.	.	.	.	.	.	.	.	.	1	1	A.	
New Hampshire.....	23	T.	A.	.	6	2	.	.	1	.	.	.	.	.	1	.	.	.	.	.	.	.	.	.	.	.	3	0	A.	
New Jersey.....	54	T.	A.	.	13	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	13	0	A.
New Mexico.....	36	T.	A.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	10	3	A.
New York.....	93	T.	A.	.	17	3	1	.	.	.	.	.	.	.	.	1	.	1	1	.	.	.	.	.	.	.	28	0	A.	
North Carolina.....	60	T.	A.	.	.	.	.	.	.	.	.	.	.	.	.	1	.	.	.	.	.	.	.	.	.	.	1	0	A.	
North Dakota....	39	T.	A.	3	7	.	1	2	.	.	.	.	.	.	.	1	.	.	.	.	.	.	.	.	.	.	14	5	A.	
Ohio.....	140	T.	A.	.	8	6	1	1	1	.	.	.	.	.	1	2	1	.	1	.	.	.	.	.	.	25	11	A.		
Oklahoma.....	20	T.	A.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	0	0	A.
Oregon.....	60	T.	A.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	5	A.
Pennsylvania.....	93	T.	A.	.	1	5	.	.	.	.	.	.	.	.	.	1	.	.	.	.	.	.	.	.	.	.	0	0	A.	
Rhode Island.....	6	T.	A.	.	3	.	.	.	.	.	.	.	.	.	.	5	.	.	.	.	.	.	.	.	.	.	7	0	A.	
South Carolina.....	42	T.	A.	.	.	.	.	.	.	.	.	.	.	.	.	1	1	1	.	.	.	.	.	.	.	.	5	1	A.	
South Dakota.....	46	T.	A.	.	6	.	.	.	.	.	.	.	.	.	14	.	1	.	.	.	.	.	.	.	.	.	8	3	A.	
Tennessee.....	49	T.	A.	.	.	.	.	.	.	.	.	.	.	.	3	1	4	2	0	1	2	14	6	23	4	A.				
Texas.....	91	T.	A.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	0	0	A.
Utah.....	32	T.	A.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	.	.	.	.	.	.	.	.	2	2	A.	
Vermont.....	13	T.	A.	.	7	.	.	.	.	.	.	.	.	.	.	1	1	1	.	.	.	.	.	.	.	0	0	A.		
Virginia.....	37	T.	A.	.	2	.	.	.	.	.	.	.	.	.	.	1	1	1	.	.	.	.	.	.	.	2	0	A.		
Washington.....	51	T.	A.	.	1	.	.	.	.	.	.	.	.	.	.	2	.	.	.	.	.	.	.	.	.	.	0	0	A.	
West Virginia....	37	T.	A.	.	2	.	.	.	.	.	.	.	.	.	2	.	.	.	.	.	.	.	.	.	.	.	4	2	A.	
Wisconsin.....	58	T.	A.	.	.	.	.	.	.	.	.	.	.	.	.	3	5	2	1	0	1	3	2	0	2	1	0	0	0	A.
Wyoming.....	11	T.	A.	.	.	.	.	.	.	.	.	.	.	.	.	1	2	0	1	3	1	3	2	1	2	0	0	0	0	A.
Sums	2,713	T.	A.	1	0	0	0	0	1	6	5	2	7	0	1	0	0	3	4	11	49	3	2	1	4	0	2	1	37	289	...	T.		

TABLE XI.—Hourly sunshine as deduced from sunshine recorders, December, 1896.

Stations.	Instrument.	Percentages for each hour of local mean time ending with the respective hour.														Monthly summary.			
		A. M.							P. M.							Instrumental record.			
		5	6	7	8	9	10	11	Noon	1	2	3	4	5	6	7	8	Actual.	
																Hours.	Hours.		
Albany, N. Y.	T.									77	72	60	44	21				165.4	281.0
Atlanta, Ga.	T.	33	42	42	48	54	64	64	73	67	63	61	62	33			176.5	307.7	
Baltimore, Md.	T.	20	23	31	46	56	56	57	44	37	28	20	20				107.5	293.7	
Binghamton, N. Y.	T.	17	18	27	36	37	37	39	35	28	24	19					82.6	284.7	
Bismarck, N. Dak.	P.									49	55	45	40	41				124.1	265.6
Boston, Mass.	T.	44	62	71	71	76	78	72	59	53	38						183.5	284.7	
Buffalo, N. Y.	T.	0	1	11	16	20	20	28	35	26	7	0					44.5	281.0	
Chattanooga, Tenn.	T.	18	22	24	36	52	55	61	58	55	52	49					141.0	305.2	
Cheyenne, Wyo.	P.	49	62	76	75	63	57	60	50	51	52						173.6	287.8	
Chicago, Ill.	T.	23	18	31	32	37	33	32	25	18	21						78.3	284.7	
Cincinnati, Ohio	T.	27	26	35	35	45	50	47	41	33	34						110.9	283.7	
Cleveland, Ohio	T.	2	5	27	31	31	32	31	25	14	9						62.9	284.7	
Columbus, Ohio	T.	0	2	12	25	32	32	34	30	27	25						66.0	281.2	
Denver, Colo.	P.	56	64	72	77	68	69	76	76	64	62						201.2	281.7	
Des Moines, Iowa	T.	43	44	39	48	51	55	50	47	50	49						135.7	284.7	
Detroit, Mich.	T.	23	21	31	42	45	46	46	30	23	21						96.4	284.7	
Dodge City, Kans.	P.	0	48	60	68	75	74	70	73	67	42						197.2	286.7	
Dubuque, Iowa	T.	15	13	17	22	24	24	35	29	29	24						71.2	284.7	
Eastport, Me.	P.	25	33	53	58	55	60	60	65	56	50						144.2	274.3	
Eureka, Cal.	P.	20	25	24	24	32	40	41	33	21	9						80.2	287.8	
Fresno, Cal.	T.	20	20	27	36	55	63	60	56	64	57						150.0	299.4	
Galveston, Tex.	P.	30	43	65	67	69	70	68	71	75	70	55	34				205.6	280.3	
Helena, Mont.	P.	28	29	37	43	39	50	48	38	34	36						104.1	284.7	
Indianapolis, Ind.	T.	25	38	51	66	70	70	66	60	41	25						154.7	281.7	
Kansas City, Mo.	P.	44	45	52	55	51	50	46	35	51							141.4	283.7	
Little Rock, Ark.	T.	55	58	66	79	80	82	83	81	75	67	64					225.4	305.2	
Los Angeles, Cal.	P.	83	67	76	81	68	73	72	79	64	54						222.3	307.7	
Louisville, Ky.	T.	100	43	43	59	63	68	70	71	51	44	42					166.2	286.7	
Minneapolis, Minn.	T.	13	16	30	32	35	30	29	26	21	20						71.9	274.3	
New Orleans, La.	T.	24	34	38	37	49	60	63	63	62	53	46	52				158.6	317.8	
New York, N. Y.	T.	39	52	68	79	78	82	81	65	55	35						185.5	287.8	
Northfield, Vt.	P.	25	31	47	46	44	48	45	37	27							113.1	277.7	
Omaha, Nebr.	P.																	41	
Philadelphia, Pa.	T.	64	56	73	83	77	75	73	78	71	54	53	38				204.5	291.7	
Phoenix, Ariz.	T.	11	46	60	74	77	73	73	72	71	54	53					246.3	310.7	
Portland, Me.	T.	2	6	11	17	23	23	21	9	5	1						173.2	277.7	
Portland, Oreg.	T.	2	4	9	15	17	16	15	12	1	1						35.6	269.6	
Raleigh, N. C.	T.	17	29	50	66	78	78	74	73	72	64	54					194.1	302.5	
Rochester, N. Y.	T.	6	13	22	31	29	29	20	30	21	14	16					59.2	281.0	
St. Louis, Mo.	T.	40	49	57	58	53	44	59	59	63	57	45					166.5	293.7	
Salt Lake City, Utah.	P.	40	43	51	53	44	59	59	53	47	43						146.8	287.8	
San Diego, Cal.	P.	64	71	72	75	87	80	78	84	82	83	69	67				242.9	310.7	
San Francisco, Cal.	T.	5	32	52	60	60	64	60	55	50	39						134.0	296.7	
Santa Fe, N. Mex.	P.	83	60	80	90	84	81	84	79	72	65	51					225.7	302.5	
Savannah, Ga.	P.	52	57	60	61	62	64	71	64	58	60	49	33				189.3	313.0	
Seattle, Wash.	T.	0	1	8	12	16	22	23	19	5	0						32.9	282.1	
Tampa, Fla.	T.	32	39	43	54	64	67	66	68	63	50	48	48				178.7	323.9	
Vicksburg, Miss.	T.	52	57	61	69	73	79	84	85	82	76	72	67				230.2	313.0	
Washington, D. C.	P.	49	53	61	61	70	68	71	68	55	52						179.9	283.7	
Wilmington, N. C.	T.	11	32	59	61	75	71	78	72	66	58	46	67				190.2	307.7	

TABLE XII.—Maximum rainfall in one hour or less, December, 1896.

Stations.	Maximum rainfall in—						Stations.	Maximum rainfall in—					
	5 min.	Date.	10 min.	Date.	1 hour.	Date.		5 min.	Date.	10 min.	Date.	1 hour.	Date.
Atlanta, Ga.†	Inch. 0.01	2	Inch. 0.03	2	Inch. 0.15	2	Milwaukee, Wis.	Inch. 0.07	15	Inch. 0.12	15	Inch. 0.08	22
Baltimore, Md.							Nantucket, Mass.						15
Bismarck, N. Dak.‡	0.02	9	0.04	9	0.13	9	Nashville, Tenn.	0.23	14	0.40	14	0.57	14
Boston, Mass.	0.02	22	0.02	22	0.19	8	New Orleans, La.	0.25	31	0.37	31	0.80	31
Buffalo, N. Y.†	0.01	6-7	0.01	6-7	0.01	6-7	New York, N. Y.*						
Chicago, Ill.*	0.02	8, 14	0.03	8, 14	0.15	8	Norfolk, Va.	0.03	15	0.05	15	0.19	15
Cincinnati, Ohio	0.01	8	0.02	8	0.11	15	Omaha, Nebr.	0.07	31	0.08	31	0.16	31
Detroit, Mich.	0.01	6-7	0.01	6-7	0.01	6-7	Philadelphia, Pa.†	0.02	16	0.04	16	0.11	16
Dodge City, Kans.*	0.03	9	0.06	9	0.07	9	Pittsburg, Pa.†						
Duluth, Minn.‡							Portland, Me.	0.06	9	0.07	9	0.20	9
Eastport, Me.	0.03	9	0.05	9	0.15	9	Portland, Oreg.	0.03	12	0.06	12	0.23	12
Galveston, Tex.	0.30	31	0.43	31	0.80	31	Rochester, N. Y.	0.01	8	0.02	8	0.11	8
Indianapolis, Ind.	0.02	14	0.03	14	0.12	14	St. Louis, Mo.	0.05	7	0.06	6	0.22	7
Jacksonville, Fla.	0.03	14	0.05	14	0.21	14	St. Paul, Minn.	0.02	17	0.03	17	0.06	17
Jupiter, Fla.	0.17	10	0.25	10	0.46	10	Salt Lake City, Utah.						
Kansas City, Mo.	0.04	31	0.06	31	0.18	31	San Diego, Cal.	0.32	18	0.47	18	0.19	18
Key West, Fla.	0.25	14	0.31	14	0.41	14	San Francisco, Cal.	0.05	15	0.10	15	0.30	15
Little Rock, Ark.*							Savannah, Ga.	0.16	14	0.27	14	0.68	14
Louisville, Ky.*	0.03	8	0.05	8	0.17	8	Seattle, Wash.	0.05	12	0.09	12	0.42	12
Memphis, Tenn.							Vicksburg, Miss.	0.07	8	0.10	8	0.25	8
	0.03	8	0.05	8	0.17	8	Washington, D. C.	0.01	15	0.02	15	0.07	15
							Wilmington, N. C.	0.03	2	0.05	2	0.29	2

* Self-register out of order. † Partly estimated. ‡ No record on account of snow.

TABLE XIII.—*Excessive precipitation, by stations, for December, 1896.*

Stations.	Monthly rainfall 10 inches, or more.	Rainfall 2.50 inches, or more, in 24 hours.		Rainfall of 1 inch, or more, in one hour.		Amt. Day.	Amt. Day.
		Ins.	h.m.	Ins.	Time.		
		Amt.	Day.	Amt.	Time.		
<i>California.</i>							
Bowmans Dam	10.31	2.70	11-12	.....	.....	.....	.....
Crescent City	15.14	2.65	14	.....	.....	.....	.....
Do.	22.55	2.85	23	.....	.....	.....	.....
Edmonton	11.13	2.85	14	.....	.....	.....	.....
Eureka	2.69	2.77	27-28	.....	.....	.....	.....
Fort Ross	13.95	.....	.....	.....	.....	.....	.....
Laporte	12.88	3.50	12	.....	.....	.....	.....
Do.	2.59	2.59	14	.....	.....	.....	.....
Middletown	11.21	3.15	15	.....	.....	.....	.....
Redbluff	2.64	14-15	.....	.....	.....	.....	.....
Shasta	13.10	.....	.....	.....	.....	.....	.....
Ukiah	10.60	.....	.....	.....	.....	.....	.....
Upper Mattole	18.49	7.22	27-28	.....	.....	.....	.....
<i>Florida.</i>							
Myers	2.65	9-10	.....	.....	.....	.....	.....
Tallahassee	4.78	1-2	.....	.....	.....	.....	.....
<i>Georgia.</i>							
Allentown	3.99	1-2	.....	.....	.....	.....	.....
Americus	2.82	1-2	.....	.....	.....	.....	.....
Brag	5.69	1-2	.....	.....	.....	.....	.....
Dublin	3.70	1-2	.....	.....	.....	.....	.....
Fleming	6.30	1-2	.....	.....	.....	.....	.....
Macon	2.70	1-2	.....	.....	.....	.....	.....
Milledgeville	3.10	1-2	.....	.....	.....	.....	.....
Morgan	4.50	1-2	.....	.....	.....	.....	.....
Piscola	5.90	1-2	.....	.....	.....	.....	.....
Quitman	6.08	1-2	.....	.....	.....	.....	.....
Savannah	3.93	1-2	.....	.....	.....	.....	.....
Thomasville	5.70	1-2	.....	.....	.....	.....	.....
<i>Kansas.</i>							
Fort Riley	2.60	31	.....	.....	.....	.....	.....
<i>Louisiana.</i>							
Lawrence	2.70	31	.....	.....	.....	.....	.....
Melville	2.50	31	.....	.....	.....	.....	.....
Sugar Experiment Station	2.60	1	.....	.....	.....	.....	.....
Thibodeaux	2.50	31	.....	.....	.....	.....	.....
<i>New Mexico.</i>							
Albert	3.05	29-30	.....	.....	.....	.....	.....
<i>North Carolina.</i>							
Falkland	3.00	15-16	.....	.....	.....	.....	.....
Oakridge	2.66	4	.....	.....	.....	.....	.....
Selma	2.50	15	.....	.....	.....	.....	.....
<i>Oklahoma.</i>							
Arapaho	2.59	30-31	.....	.....	.....	.....	.....
Mangum	2.67	30	.....	.....	.....	.....	.....
<i>Oregon.</i>							
Astoria	19.14	4.31	6-7	.....	.....	.....	.....
Bandon	2.68	27	.....	.....	.....	.....	.....
Bay City	12.71	.....	.....	.....	.....	.....	.....
Cascade Locks	14.85	.....	.....	.....	.....	.....	.....
Falls City	16.29	.....	.....	.....	.....	.....	.....
Forest Grove	10.45	.....	.....	.....	.....	.....	.....

TABLE XIII.—*Excessive Precipitation.—Continued.*

Stations.	Monthly rainfall 10 inches, or more.	Rainfall 2.50 inches, or more, in 24 hours.		Rainfall of 1 inch, or more, in one hour.		Amt. Day.	Amt. Day.
		Ins.	h.m.	Ins.	Time.		
		Amt.	Day.	Amt.	Time.		
<i>Oregon—Continued.</i>							
Gardiner	13.59	.....	.....	.....	.....	.....	.....
Glenora	30.05	5.46	7	.....	.....	.....	.....
Do.	2.51	10	.....	.....	.....	.....	.....
Do.	3.07	12	.....	.....	.....	.....	.....
Government Camp	14.77	.....	.....	.....	.....	.....	.....
Langlois	16.21	.....	.....	.....	.....	.....	.....
McMinnville	11.13	.....	.....	.....	.....	.....	.....
Nehalem	19.81	.....	.....	.....	.....	.....	.....
Newberg	11.65	.....	.....	.....	.....	.....	.....
Newport	13.46	.....	.....	.....	.....	.....	.....
Stafford	10.82	.....	.....	.....	.....	.....	.....
Toledo	12.00	.....	.....	.....	.....	.....	.....
Vernonia	10.35	.....	.....	.....	.....	.....	.....
<i>South Carolina.</i>							
Charleston	3.40	1-2	.....	.....	.....	.....	.....
Edisto	3.92	1-2	.....	.....	.....	.....	.....
Gillisonville	4.17	1-2	.....	.....	.....	.....	.....
Pinopolis	4.13	1-2	.....	.....	.....	.....	.....
St. George	3.10	1-2	.....	.....	.....	.....	.....
St. Stephens	3.10	1-2	.....	.....	.....	.....	.....
Trial	4.01	1-2	.....	.....	.....	.....	.....
Yemassee	4.03	1-2	.....	.....	.....	.....	.....
<i>Texas.</i>							
Abilene	.....	.....	.....	.....	.....	1.00	0.40
Amarillo	2.60	29-30	.....	.....	.....	1.10	0.50
Brady	.....	.....	.....	.....	.....	30-31	.....
Dublin	3.25	.....	.....	.....	.....	30	.....
Graham	3.00	.....	.....	.....	.....	30	.....
Haskell	2.60	.....	.....	.....	.....	30	.....
Houston	3.35	30-31	.....	.....	.....	30	.....
Panter	2.56	.....	.....	.....	.....	30	.....
<i>Virginia.</i>							
Hampton	2.54	15-16	.....	.....	.....	.....	.....
<i>Washington.</i>							
Chehalis	10.63	.....	.....	.....	.....	.....	.....
Clearwater	25.26	2.94	2	.....	.....	.....	.....
Do.	2.73	6	.....	.....	.....	.....	.....
Do.	4.40	18	.....	.....	.....	.....	.....
Fort Canby	16.04	2.82	6-7	.....	.....	.....	.....
Grandmound	12.20	3.22	6-7	.....	.....	.....	.....
Lapush	19.15	2.50	3	.....	.....	.....	.....
Mayfield	10.68	.....	.....	.....	.....	.....	.....
North Bend	19.09	3.86	3	.....	.....	.....	.....
Olympia	14.14	.....	.....	.....	.....	.....	.....
Pysht	14.99	.....	.....	.....	.....	.....	.....
Silvercreek	11.83	.....	.....	.....	.....	.....	.....
Southbend	18.98	4.68	7	.....	.....	.....	.....
Tacoma	11.11
Tatoosh Island	19.91	4.00	2-3
Do.	4.28	18-19
Union City	19.57	2.80	12
Vashon	10.78

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